240653

# Appendices and Exhibits
# Volume II

000335
1087933 - R8 SDMS
ADMINISTRATIVE RECORDS
SF FILE NUMBER
6.10

# Mystery Bridge Road/ Highway 20 Site
## Natrona County, Wyoming
## RI/FS Report

KNEnergy Inc.
The Dow Chemical Company
Dowell-Schlumberger, Inc.

March 1990

REVISED JUNE 1990

O'BRIEN & GERE

# APPENDIX K

0240639

ABBOTT GRADING

0240640

EPA SAMPLE NO.

AB 1-4 COMP

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES  Contract: ----

Lab Code: ----  Case No.: ----  SAS No.: ----  SDG No.: ----

Matrix: (soil/water) SOIL  Lab Sample ID: B9059

Sample wt/vol: 30.7 (g/mL) G  Lab File ID: >B9059

Level: (low/med) LOW  Date Received: 07/13/89

% Moisture: not dec. 10.65  dec. ----  Date Extracted: 07/26/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 9/06/89

GPC Cleanup: (Y/N) N  pH: 8.7  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 360. | U | |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 45. | J | |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 360. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 360. | U | |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethyl Phthalate | 360. | U | |
| 208-96-8 | Acenaphthylene | 360. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0240641

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AB 1-4 COMP

Lab Name: CORE LABORATORIES Contract: ----

Lab Code: ---- Case No.: ---- SAS No.: ---- SDG No.: ----

Matrix: (soil/water) SOIL Lab Sample ID: B9059

Sample wt/vol: 30.7 (g/mL) G Lab File ID: >B9059

Level: (low/med) LOW Date Received: 07/13/89

% Moisture: not dec. 10.65 dec. ---- Date Extracted: 07/26/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/06/89

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 360. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 360. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 360. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 45. | J | |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 360. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 360. | U | |
| 218-01-9 | Chrysene | 360. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 86. | J | |
| 117-84-0 | Di-n-octyl phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 360. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

0240642

1F

EPA SAMPLE NO.

AB 1-4 COMP

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CORE LABORATORIES  Contract: ----

Lab Code: ----  Case No.: ----  SAS No.: ----  SDG No.: ----

Matrix: (soil/water) SOIL  Lab Sample ID: B9059

Sample wt/vol: 30.7 (g/mL) G  Lab File ID: >B9059

Level: (low/med) LOW  Date Received: 07/13/89

% Moisture: not dec. 10.65  dec. 0.0  Date Extracted: 07/26/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 9/06/89

GPC Cleanup: (Y/N) N  pH: 8.7  Dilution Factor: 1.00000

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 54063148 | 1,3-Dioxan-5-ol, 4,4,5-trime | 9.69 | 19. | 35 |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
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| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240543

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT EPA SAMPLE NO.: AB1-4 COMP.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890905-9

Level (low/med): LOW Date Received: 7/13/89

% Solids: 89.35%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 5.9 | | | F |
| 7440-39-3 | Barium | 130 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 12.2 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 14.3 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.8 | B | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0240544

BURKE MOVING AND STORAGE

0240645

EPA SAMPLE NO.

COMP 6

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-46

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3046

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec.____ dec. 8.41 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.03 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240646

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO
COMP 6

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-46

Sample wt/vol: 30 (g/mL) G Lab File ID: >83046

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. _____ dec. 8.41 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.03 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 53. | JB |
| 117-84-0 | Di-n-octyl_Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F 0240647 EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Comp 6

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-46

Sample wt/vol: 30 (g/mL) g Lab File ID: B3046

Level: (low/med) Low Date Received: 1/6/89

Moisture: not dec. _____ dec. 8.41 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.03 Dilution Factor: 1

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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| 30. | | | | | |

0240648

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890030-46

Level (low/med): LOW Date Received: 1/09/89

% Solids: 91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 6.4 | | F | |
| 7440-39-3 | Barium | 123 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 12.0 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 12.1 | | F | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.04 | U | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.4 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

_____

_____

_____

0240649

CENTRAL WYOMING TRUCK SALES

0240650

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

~~XXXX~~ SAMPLE NO.

CWTB (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-15

Level (low/med): LOW Date Received: 5/26/89

% Solids: 92.12%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 8.1 | | | F |
| 7440-39-3 | Barium | 93 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 12 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 9.1 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0240651

CHEMICAL MARKETING SERVICES

0240552

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 7

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-72

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3072

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec. _____ dec. 10.93 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 7.95 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240653

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 7

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-72

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3072

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec._____ dec. 10.93 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 7.85 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 47. | JB |
| 117-84-0 | Di-n-octyl Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

0240654

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Comp 7

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-72

Sample wt/vol: 30 (g/mL) g Lab File ID: B3072

Level: (low/med) Low Date Received: 1/9/89

% Moisture: not dec. _____ dec. 10.93 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 7.85 Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

U.S. EPA - CLP 0240655

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890030-72

Level (low/med): LOW Date Received: 1/09/89

% Solids: 89.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 5.8 | | F | |
| 7440-39-3 | Barium | 112 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 10.6 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 18.2 | | F | + |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.05 | | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.4 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |

Color Before: BROWN Clarity Before: _____ Texture: MED.

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

_____

_____

_____

0240656

# COMMERCIAL BUILDING SYSTEMS

0240657

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 9

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-74

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3074

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec. _____ dec. 9.80 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.24 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240658

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 9

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-74

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3074

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec. _____ dec. 9.80 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.24 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 160. | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 47. | JB |
| 117-84-0 | Di-n-octyl_Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

0240659

EPA SAMPLE NO:

Comp 9

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-74

Sample wt/vol: 30 (g/mL) g Lab File ID: B3074

Level: (low/med) Low Date Received: 1/9/89

% Moisture: not dec. _____ dec. 9.80 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.24 Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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U.S. EPA - CLP

0240960

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890030-74

Level (low/med): LOW Date Received: 1/09/89

% Solids: 90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 6.7 | | F | |
| 7440-39-3 | Barium | 131 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | B | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 12.9 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 23.6 | | F | + |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.04 | U | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.4 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: _____ Texture: MED.

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

_____

_____

_____

0240661

DOWELL-SCHLUMBERGER

0240662

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#1;28-29.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG412

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG412

Level: (low/med) LOW Date Received: 09/22/89

% Moisture: not dec.1 Date Analyzed: 9/26/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 4. | J |
| 133-02-7 | Xylene (total) | 5. | U |

0240663

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#1;28-29.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG412

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG412

Level: (low/med) MED Date Received: 09/22/89

% Moisture: not dec.1 Date Analyzed: 9/26/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 15 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.17 | 110. | |
| 2. | | Unknown | 20.90 | 6. | |
| 3. | | Unknown | 21.59 | 4. | |
| 4. | | Unknown | 21.83 | 3. | |
| 5. | | Unknown | 23.05 | 5. | |
| 6. | 7367386 | 4-Nonene, 5-butyl- (8CI9CI) | 23.69 | 6. | |
| 7. | 17312764 | Undecane, 6,6-dimethyl- (8CI | 24.18 | 30. | |
| 8. | 74630312 | 2-Decene, 6-methyl-, (Z)- (9 | 24.79 | 12. | |
| 9. | 629505 | Tridecane (8CI9CI) | 24.91 | 7. | |
| 10. | 2437561 | 1-Tridecene (8CI9CI) | 25.23 | 9. | |
| 11. | 15776053 | 1,2,4-Metheno-1H-cyclobuta[c | 25.52 | 8. | |
| 12. | 3891983 | Dodecane, 2,6,10-trimethyl- | 26.33 | 47. | |
| 13. | 54965058 | Cyclohexane, 1,1,3-trimethyl | 27.01 | 39. | |
| 14. | 62238135 | Decane, 2,3,7-trimethyl- (9C | 27.95 | 60. | |
| 15. | 62249529 | Bicyclo[2.2.2]oct-5-ene-2,3- | 28.55 | 50. | |
| 16. | | | | | |
| 17. | | | | | |
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0240664

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#1;34-35.5'

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >OG413

Sample wt/vol: 5 (g/mL) G  Lab File ID: >OG413

Level: (low/med) LOW  Date Received: 09/25/89

% Moisture: not dec.1  Date Analyzed: 9/26/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 4. | JB |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | .7 | J |
| 133-02-7 | Xylene (total) | 5. | U |

0240665

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#1;34-35.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >0G413

Sample wt/vol: 5 (g/mL) G Lab File ID: >0G413

Level: (low/med) MED Date Received: 09/25/89

% Moisture: not dec.1 Date Analyzed: 9/26/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 75. | |
| 2. | | Unknown | 1.25 | 7. | |
| 3. | 17302237 | Nonane, 4,5-dimethyl- (8CI9C | 20.54 | 7. | |
| 4. | | Unknown | 20.90 | 5. | |
| 5. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.75 | 3. | |
| 6. | | Unknown | 22.16 | 5. | |
| 7. | | Unknown | 22.60 | 13. | |
| 8. | 62016335 | Octane, 2,3,6-trimethyl- (9C | 22.80 | 16. | |
| 9. | 62108252 | Decane, 2,6,7-trimethyl- (9C | 23.01 | 4. | |
| 10. | 629505 | Tridecane (8CI9CI) | 24.91 | 9. | |
| 11. | 4418615 | 1H-Tetrazol-5-amine (9CI) | 26.33 | 6. | |
| 12. | 13475815 | Hexane, 2,2,3,3-tetramethyl- | 26.89 | 7. | |
| 13. | 921471 | Hexane, 2,3,4-trimethyl- (8C | 27.90 | 4. | |
| 14. | 767602 | 1H-Indene, 3-methyl- (9CI) | 29.24 | 3. | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
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0240666

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#1;46-47.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >0G414

Sample wt/vol: 5 (g/mL) G Lab File ID: >0G414

Level: (low/med) LOW Date Received: 09/25/89

% Moisture: not dec.1 Date Analyzed: 9/26/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | .6 | JB |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .5 | J |
| 100-42-5 | Styrene | 5. | U |
| 1330-20-7 | Xylene (total) | 5. | U |

0240667

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

#1;46-47.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >0G414

Sample wt/vol: 5 (g/mL) G Lab File ID: >0G414

Level: (low/med) LOW Date Received: 09/25/89

% Moisture: not dec.1 Date Analyzed: 9/26/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 0.00 | 0. | |
| 2. | | Unknown | 20.54 | 7. | |
| 3. | 17302237 | Nonane, 4,5-dimethyl- (8CI9C | 20.54 | 7. | |
| 4. | | Unknown | 21.88 | 4. | |
| 5. | 7289409 | Ether, heptyl hexyl (8CI) | 22.85 | 5. | |
| 6. | | Unknown | 24.14 | 5. | |
| 7. | 7289409 | Ether, heptyl hexyl (8CI) | 24.95 | 8. | |
| 8. | 27138212 | Benzene, (1,1-dimethylethyl) | 25.96 | 3. | |
| 9. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 26.37 | 7. | |
| 10. | 6064273 | 6-Dodecanone (8CI9CI) | 26.69 | 9. | |
| 11. | 54833486 | Heptadecane, 2,6,10,15-tetra | 26.93 | 27. | |
| 12. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.30 | 8. | |
| 13. | 17301223 | Undecane, 2,5-dimethyl- (8CI | 27.95 | 9. | |
| 14. | 54725712 | Silane, (2-cyclohexen-1-ylox | 28.19 | 10. | |
| 15. | 55449702 | Pentaleno[1,2-b]oxirene, oct | 28.43 | 18. | |
| 16. | 613376 | 1,1'-Biphenyl, 4-methoxy- (9 | 28.76 | 25. | |
| 17. | 571619 | Naphthalene, 1,5-dimethyl- ( | 29.32 | 12. | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
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0240668

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#2;2-3.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >0G112

Sample wt/vol: 5 (g/mL) G Lab File ID: >0G112

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 47. | B |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 1. | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 2. | JB |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .6 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240669

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#2;2-3.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG112

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG112

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 100. | |
| 2. | | Unknown | 4.69 | 8. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
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| 22. | | | | | |
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0240670

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#2;10-11.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >12113

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG113

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | IU |
| 74-83-9 | Bromomethane | 10. | IU |
| 75-01-4 | Vinyl Chloride | 10. | IU |
| 75-00-3 | Chloroethane | 10. | IU |
| 75-09-2 | Methylene_Chloride | 5. | IJB |
| 67-64-1 | Acetone | 10. | IU |
| 75-15-0 | Carbon Disulfide | 5. | IU |
| 75-35-4 | 1,1-Dichloroethene | 5. | IU |
| 75-34-3 | 1,1-Dichloroethane | 5. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | IU |
| 67-66-3 | Chloroform | 5. | IU |
| 107-02-2 | 1,2-Dichloroethane | 5. | IU |
| 78-93-3 | 2-Butanone | 10. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | IU |
| 56-23-5 | Carbon Tetrachloride | 5. | IU |
| 108-05-4 | Vinyl Acetate | 10. | IU |
| 75-27-4 | Bromodichloromethane | 5. | IU |
| 78-87-5 | 1,2-Dichloropropane | 2. | IJ |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | IU |
| 79-01-6 | Trichloroethene | 5. | IU |
| 124-48-1 | Dibromochloromethane | 5. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | IU |
| 71-43-2 | Benzene | 5. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | IU |
| 75-25-2 | Bromoform | 5. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | IU |
| 591-78-6 | 2-Hexanone | 10. | IU |
| 127-18-4 | Tetrachloroethene | 5. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | IU |
| 108-88-3 | Toluene | 5. | IU |
| 108-90-7 | Chlorobenzene | 5. | IU |
| 100-41-4 | Ethylbenzene | .4 | IJB |
| 100-42-5 | Styrene | 5. | IU |
| 133-02-7 | Xylene (total) | 5. | IU |

0240671

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#2;10-11.5'

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >12113

Sample wt/vol: 5 (g/mL) G  Lab File ID: >OG113

Level: (low/med) LOW  Date Received: 09/14/89

% Moisture: not dec.1  Date Analyzed: 9/22/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.11 | 60. | |
| 2. | | Unknown | 1.27 | 6. | |
| 3. | | Unknown | 4.75 | 9. | |
| 4. | 2040962 | Cyclopentane, propyl- (8CI9C | 24.08 | 4. | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
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0240672

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#2;26-27.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG114

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG114

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 24. | B |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 1. | JB |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240673

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#2;26-27.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG114

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG114

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 60. | |
| 2. | | Unknown | 1.25 | 7. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.77 | 7. | |
| 4. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.83 | 3. | |
| 5. | 15185112 | Bicyclo[2.2.1]heptane, 2-met | 24.06 | 8. | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
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0240674

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

#3;2-3.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1120

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1120

Level: (low/med) LOW Date Received: 09/20/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | .6 | J |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240675

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#3;2-3.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1120

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1120

Level: (low/med) LOW Date Received: 09/20/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 65. | |
| 2. | | Unknown | 22.81 | 6. | |
| 3. | | Unknown | 23.66 | 5. | |
| 4. | | Unknown | 24.07 | 5. | |
| 5. | 590352 | Pentane, 2,2-dimethyl- (8CI9 | 24.19 | 6. | |
| 6. | 7289409 | Ether, heptyl hexyl (8CI) | 24.92 | 14. | |
| 7. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 26.33 | 4. | |
| 8. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 26.90 | 7. | |
| 9. | | | | | |
| 10. | | | | | |
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0240676

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#3;32-33.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1119

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1119

Level: (low/med) LOW Date Received: 09/20/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | .5 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240677

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

#3;32-33.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1119

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1119

Level: (low/med) LOW Date Received: 09/20/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.19 | 60. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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0240678

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#4;10-11.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1122

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1122

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | .8 | J |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | .7 | J |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240679

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#4;10-11.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1122

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1122

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 47. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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0240680

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#4;24-25.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1123

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1123

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | UB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 2. | J |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | .9 | J |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240681
EPA SAMPLE NO.

#4;24-25.5'

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1123

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1123

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.17 | 45. | |
| 2. | | Unknown | 4.77 | 7. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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0240682

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#4;36-37.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1124

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1124

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 1. | J |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240683

EPA SAMPLE NO.

#4;36-37.5'

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1124

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1124

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 56. | |
| 2. | | Unknown | 4.69 | 7. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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0240684
EPA SAMPLE NO.

#4;46-47.5'

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1125

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1125

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240685

1

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

#4;46-47.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1125

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1125

Level: (low/med) LOW Date Received: 09/21/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 53. | |
| 1. | | Unknown | 4.65 | 7. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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0240686

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#5;0-1.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1111

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1111

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 6. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | JB |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | .3 | J |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | .2 | J |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 2. | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 22. | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 3. | JB |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 2. | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | .9 | J |

0240687

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

#5;0-1.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1111

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1111

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 16 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 71. | |
| 2. | 110543 | Hexane (DOT)(8CI9CI) | 4.73 | 9. | |
| 3. | 692455 | Formic acid, ethenyl ester ( | 14.15 | 4. | |
| 4. | 98828 | Benzene, (1-methylethyl)- (9 | 18.40 | 4. | |
| 5. | 62183555 | Octane, 3-ethyl-2,7-dimethyl | 20.54 | 5. | |
| 6. | 2958761 | Naphthalene, decahydro-2-met | 21.51 | 4. | |
| 7. | 4038044 | 1-Pentene, 3-ethyl- (8CI9CI) | 21.88 | 9. | |
| 8. | 54676390 | Cyclohexane, 2-butyl-1,1,3-t | 23.70 | 5. | |
| 9. | 18409171 | 2-Octen-1-ol, (E)- (8CI9CI) | 24.10 | 7. | |
| 10. | 629505 | Tridecane (8CI9CI) | 24.91 | 10. | |
| 11. | 2131422 | Naphthalene, 1,4,6-trimethyl | 25.72 | 6. | |
| 12. | 17312742 | Decane, 5-ethyl-5-methyl- (8 | 26.33 | 10. | |
| 13. | 54833486 | Heptadecane, 2,6,10,15-tetra | 26.90 | 22. | |
| 14. | 1921706 | Pentadecane, 2,6,10,14-tetra | 27.91 | 6. | |
| 15. | 569415 | Naphthalene, 1,8-dimethyl- ( | 28.84 | 10. | |
| 16. | 575371 | Naphthalene, 1,7-dimethyl- ( | 29.28 | 7. | |
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0240683

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#5;14-15.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1112

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1112

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | IU |
| 74-83-9 | Bromomethane | 10. | IU |
| 75-01-4 | Vinyl Chloride | 10. | IU |
| 75-00-3 | Chloroethane | 10. | IU |
| 75-09-2 | Methylene_Chloride | 4. | IJB |
| 67-64-1 | Acetone | 10. | IU |
| 75-15-0 | Carbon Disulfide | 1. | IJB |
| 75-35-4 | 1,1-Dichloroethene | 5. | IU |
| 75-34-3 | 1,1-Dichloroethane | 5. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | IU |
| 67-66-3 | Chloroform | 5. | IU |
| 107-02-2 | 1,2-Dichloroethane | 5. | IU |
| 78-93-3 | 2-Butanone | 10. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | IU |
| 56-23-5 | Carbon Tetrachloride | 5. | IU |
| 108-05-4 | Vinyl Acetate | 10. | IU |
| 75-27-4 | Bromodichloromethane | 5. | IU |
| 78-87-5 | 1,2-Dichloropropane | 5. | IU |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | IU |
| 79-01-6 | Trichloroethene | 5. | IU |
| 124-48-1 | Dibromochloromethane | 5. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | IU |
| 71-43-2 | Benzene | 5. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | IU |
| 75-25-2 | Bromoform | 5. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | IU |
| 591-78-6 | 2-Hexanone | 10. | IU |
| 127-18-4 | Tetrachloroethene | 5. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | IU |
| 108-88-3 | Toluene | 1. | IJB |
| 108-90-7 | Chlorobenzene | 5. | IU |
| 100-41-4 | Ethylbenzene | .4 | IJB |
| 100-42-5 | Styrene | 5. | IU |
| 133-02-7 | Xylene (total) | 5. | IU |

0240689
EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

#5;14-15.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1112

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1112

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 57. | |
| 2. | 110543 | Hexane (DOT)(8CI9CI) | 4.69 | 8. | |
| 3. | 291645 | Cycloheptane (8CI9CI) | 21.87 | 4. | |
| 4. | 7320378 | Oxirane, tetradecyl- (9CI) | 24.06 | 5. | |
| 5. | 4418615 | 1H-Tetrazol-5-amine (9CI) | 26.89 | 3. | |
| 6. | 62238135 | Decane, 2,3,7-trimethyl- (9CI | 28.79 | 5. | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
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0240690

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#5;24-25.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1113

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1113

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | IU |
| 74-83-9 | Bromomethane | 10. | IU |
| 75-01-4 | Vinyl Chloride | 10. | IU |
| 75-00-3 | Chloroethane | 10. | IU |
| 75-09-2 | Methylene_Chloride | 4. | IJB |
| 67-64-1 | Acetone | 10. | IU |
| 75-15-0 | Carbon Disulfide | 1. | IJB |
| 75-35-4 | 1,1-Dichloroethene | 5. | IU |
| 75-34-3 | 1,1-Dichloroethane | 5. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | IU |
| 67-66-3 | Chloroform | 5. | IU |
| 107-02-2 | 1,2-Dichloroethane | 5. | IU |
| 78-93-3 | 2-Butanone | 10. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | IU |
| 56-23-5 | Carbon Tetrachloride | 5. | IU |
| 108-05-4 | Vinyl Acetate | 10. | IU |
| 75-27-4 | Bromodichloromethane | 5. | IU |
| 78-87-5 | 1,2-Dichloropropane | 2. | IJ |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | IU |
| 79-01-6 | Trichloroethene | 5. | IU |
| 124-48-1 | Dibromochloromethane | 5. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | IU |
| 71-43-2 | Benzene | 5. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | IU |
| 75-25-2 | Bromoform | 5. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | IU |
| 591-78-6 | 2-Hexanone | 10. | IU |
| 127-18-4 | Tetrachloroethene | 5. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | IU |
| 108-88-3 | Toluene | 5. | IU |
| 108-90-7 | Chlorobenzene | 5. | IU |
| 100-41-4 | Ethylbenzene | .3 | IJB |
| 100-42-5 | Styrene | 5. | IU |
| 133-02-7 | Xylene (total) | 5. | IU |

0240691

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#5;24-25.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1113

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1113

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 53. | |
| 2. | 96140 | Pentane, 3-methyl- (8CI9CI) | 4.69 | 8. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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0240692

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#6;30-30.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG111

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG111

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 56. | B |
| 75-15-0 | Carbon Disulfide | 3. | JB |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 2. | JB |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .5 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240693

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#6;30-30.5'

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >0G111

Sample wt/vol: 5 (g/mL) G  Lab File ID: >0G111

Level: (low/med) LOW  Date Received: 09/14/89

% Moisture: not dec.1  Date Analyzed: 9/22/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 130. | |
| 2. | | Unknown | 1.26 | 8. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.70 | 10. | |
| 4. | 6728310 | 4-Heptenal, (Z)- (8CI9CI) | 24.07 | 3. | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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0240694

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DS1#6

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2111

Sample wt/vol: 30.1 (g/mL) G Lab File ID: >B2111

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1.3 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 340. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 340. | U | |
| 95-57-8 | 2-Chlorophenol | 10. | U | X |
| 541-73-1 | 1,3-Dichlorobenzene | 340. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 340. | U | |
| 100-51-6 | Benzyl alcohol | 340. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 340. | U | |
| 95-48-7 | 2-Methylphenol | 340. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 340. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 340. | U | |
| 98-95-3 | Nitrobenzene | 340. | U | |
| 78-59-1 | Isophorone | 340. | U | |
| 88-75-5 | 2-Nitrophenol | 340. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 340. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 340. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 340. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 340. | U | |
| 87-68-3 | Hexachlorobutadiene | 340. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 340. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 340. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 340. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 340. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethyl Phthalate | 340. | U | |
| 208-96-8 | Acenaphthylene | 340. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 340. | U | |

0240695

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DS1#6

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2111

Sample wt/vol: 30.1 (g/mL) G Lab File ID: >B2111

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1.3 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 340. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 1700. | U | |
| 132-64-9 | Dibenzofuran | 340. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 340. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 340. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 340. | U | |
| 118-74-1 | Hexachlorobenzene | 340. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 340. | U | |
| 120-12-7 | Anthracene | 340. | U | |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 340. | U | |
| 129-00-0 | Pyrene | 340. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U | |
| 56-55-3 | Benzo(a)anthracene | 340. | U | |
| 218-01-9 | Chrysene | 340. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octyl_phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 340. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 340. | U | |
| 50-32-8 | Benzo(a)pyrene | 340. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 340. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 340. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 340. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DS1#6

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240696

Matrix: (soil/water) SOIL  Lab Sample ID: B2111

Sample wt/vol: 30.1 (g/mL) mL  Lab File ID: >B2111

Level: (low/med) LOW  Date Received: 09/14/89

% Moisture: not dec. 1.3  dec. 0.0  Date Extracted: 09/21/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 6  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| No hits for scan | | 40. of File >B2111 | | | |
| 2. | 464073 | 2-Butanol, 3,3-dimethyl- (8C | 10.00 | 2600. | |
| No hits for scan | | 176. of File >B2111 | | | |
| 4. | 108383 | Benzene, 1,3-dimethyl- (9CI) | 10.75 | 71. | |
| 5. | 505226 | 1,3-Dioxane (9CI) | 11.98 | 770. | |
| 6. | 123795 | Hexanedioic acid, dioctyl es | 35.69 | 170. | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
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0240697

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#7;6-7.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1114

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1114

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | .7 | J |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240698

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

#7;6-7.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1114

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1114

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 38. | |
| 2. | 1678928 | Cyclohexane, propyl- (8CI9CI | 16.70 | 4. | |
| 3. | 63830693 | 4-Nonene, 3-methyl-, (Z)- (9 | 17.35 | 5. | |
| 4. | 16778704 | 1H-1,2,4-Triazole, 1-ethyl- | 18.40 | 5. | |
| 5. | | Unknown | 18.57 | 6. | |
| 6. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.17 | 7. | |
| 7. | 1795159 | Cyclohexane, octyl- (9CI) | 19.34 | 8. | |
| 8. | 91178 | Naphthalene, decahydro- (8CI | 20.27 | 7. | |
| 9. | 1120214 | Undecane (8CI9CI) | 20.55 | 15. | |
| 10. | 2958761 | Naphthalene, decahydro-2-met | 21.48 | 5. | |
| 11. | 5113666 | 2-Cyclohexen-1-one, 5-methyl | 21.97 | 4. | |
| 12. | 7045718 | Undecane, 2-methyl- (8CI9CI) | 22.78 | 8. | |
| 13. | 933982 | Benzene, 1-ethyl-2,3-dimethy | 23.18 | 5. | |
| 14. | 18829555 | 2-Heptenal, (E)- (8CI9CI) | 24.07 | 8. | |
| 15. | 91203 | Naphthalene (ACN)(DOT)(8CI9C | 24.52 | 7. | |
| 16. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.78 | 20. | |
| 17. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 27.27 | 9. | |
| 18. | 939275 | Naphthalene, 2-ethyl- (8CI9C | 28.73 | 6. | |
| 19. | 569415 | Naphthalene, 1,8-dimethyl- ( | 28.85 | 19. | |
| 20. | 569415 | Naphthalene, 1,8-dimethyl- ( | 29.29 | 26. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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0240099

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#7;10-11.5'

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >G1115

Sample wt/vol: 5 (g/mL) G  Lab File ID: >G1115

Level: (low/med) LOW  Date Received: 09/16/89

% Moisture: not dec.1  Date Analyzed: 9/23/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .8 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240700

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#7;10-11.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1115

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1115

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 60. | |
| 2. | 123751 | Pyrrolidine (DOT)(8CI9CI) | 17.15 | 7. | |
| 3. | 51655642 | Nonane, 3-methylene- (9CI) | 17.36 | 6. | |
| 4. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 18.41 | 8. | |
| 5. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.61 | 9. | |
| 6. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.18 | 10. | |
| 7. | 16747505 | Cyclopentane, 1-ethyl-1-meth | 19.34 | 12. | |
| 8. | 13151296 | 1-Decene, 4-methyl- (8CI9CI) | 19.62 | 7. | |
| 9. | 493027 | Naphthalene, decahydro-, tra | 20.31 | 9. | |
| 10. | 1120214 | Undecane (8CI9CI) | 20.55 | 26. | |
| 11. | 55255975 | 4,7-Methano-1H-inden-1-ol, o | 21.48 | 6. | |
| 12. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.77 | 7. | |
| 13. | 112403 | Dodecane (8CI9CI) | 22.78 | 10. | |
| 14. | 25155151 | Benzene, methyl(1-methylethyl | 23.18 | 5. | |
| 15. | | Unknown | 24.07 | 7. | |
| 16. | 91203 | Naphthalene (ACN)(DOT)(8CI9C | 24.52 | 6. | |
| 17. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.83 | 13. | |
| 18. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 27.31 | 6. | |
| 19. | 569415 | Naphthalene, 1,8-dimethyl- ( | 28.89 | 11. | |
| 20. | 575417 | Naphthalene, 1,3-dimethyl- ( | 29.33 | 12. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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0240701

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#7;26-27.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1116

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1116

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240702

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#7;26-27.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >G1116

Sample wt/vol: 5 (g/mL) G Lab File ID: >G1116

Level: (low/med) LOW Date Received: 09/16/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 46. | |
| 2. | | Unknown | 4.69 | 6. | |
| 3. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.89 | 6. | |
| 4. | 112312 | Decanal (8CI9CI) | 24.11 | 8. | |
| 5. | | Unknown | 26.18 | 6. | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
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| 30. | | | | | |

0240703

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#8;24-25.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG115

Sample wt/vol: 1 (g/mL) G Lab File ID: >OG115

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 50. | IU |
| 74-83-9 | Bromomethane | 50. | IU |
| 75-01-4 | Vinyl Chloride | 50. | IU |
| 75-00-3 | Chloroethane | 50. | IU |
| 75-09-2 | Methylene_Chloride | 20. | IJB |
| 67-64-1 | Acetone | 50. | IU |
| 75-15-0 | Carbon Disulfide | 25. | IU |
| 75-35-4 | 1,1-Dichloroethene | 25. | IU |
| 75-34-3 | 1,1-Dichloroethane | 25. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 25. | IU |
| 67-66-3 | Chloroform | 25. | IU |
| 107-02-2 | 1,2-Dichloroethane | 25. | IU |
| 78-93-3 | 2-Butanone | 50. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 25. | IU |
| 56-23-5 | Carbon Tetrachloride | 25. | IU |
| 108-05-4 | Vinyl Acetate | 50. | IU |
| 75-27-4 | Bromodichloromethane | 25. | IU |
| 78-87-5 | 1,2-Dichloropropane | 25. | IU |
| 10061-01-5 | cis-1,3-Dichloropropene | 25. | IU |
| 79-01-6 | Trichloroethene | 25. | IU |
| 124-48-1 | Dibromochloromethane | 25. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 25. | IU |
| 71-43-2 | Benzene | 25. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 25. | IU |
| 75-25-2 | Bromoform | 25. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 50. | IU |
| 591-78-6 | 2-Hexanone | 50. | IU |
| 127-18-4 | Tetrachloroethene | 25. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25. | IU |
| 108-88-3 | Toluene | 6. | IJB |
| 108-90-7 | Chlorobenzene | 25. | IU |
| 100-41-4 | Ethylbenzene | 2. | IJB |
| 100-42-5 | Styrene | 25. | IU |
| 133-02-7 | Xylene (total) | 25. | IU |

0240704

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#8;24-25.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG115

Sample wt/vol: 1 (g/mL) G Lab File ID: >OG115

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 270. | |
| 2. | 20309777 | Cyclopentane, 1,1,3,4-tetram | 17.36 | 320. | |
| 3. | 590669 | Cyclohexane, 1,1-dimethyl- ( | 18.41 | 620. | |
| 4. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.62 | 1400. | |
| 5. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 19.06 | 1200. | |
| 6. | 2847725 | Decane, 4-methyl- (8CI9CI) | 19.63 | 640. | |
| 7. | 91178 | Naphthalene, decahydro- (8CI | 20.32 | 880. | |
| 8. | 1120214 | Undecane (8CI9CI) | 20.56 | 1000. | |
| 9. | 26248420 | Tridecanol (8CI9CI) | 20.84 | 760. | |
| 10. | 2980690 | Undecane, 4-methyl- (8CI9CI) | 21.13 | 260. | |
| 11. | 2958761 | Naphthalene, decahydro-2-met | 21.49 | 340. | |
| 12. | 33877871 | Azulene, 1,2,3,3a-tetrahydro | 21.74 | 140. | |
| 13. | 2958761 | Naphthalene, decahydro-2-met | 21.94 | 520. | |
| 14. | 488233 | Benzene, 1,2,3,4-tetramethyl | 22.30 | 170. | |
| 15. | 112403 | Dodecane (8CI9CI) | 22.79 | 630. | |
| 16. | 17301234 | Undecane, 2,6-dimethyl- (8CI | 23.03 | 410. | |
| 17. | 535773 | Benzene, 1-methyl-3-(1-methy | 23.16 | 480. | |
| 18. | 18321363 | Benzene, (1,1-dimethyl-2-pro | 24.05 | 420. | |
| 19. | 629505 | Tridecane (8CI9CI) | 24.90 | 190. | |
| 20. | 74645980 | Dodecane, 2,7,10-trimethyl- | 26.32 | 140. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240705

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#8;32-33.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG116

Sample wt/vol: 5 (g/mL) G Lab File ID: >G116D

Level: (low/med) MED Date Received: 09/14/89

% Moisture: not dec. 1 Date Analyzed: 9/23/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 7. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 7. | |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | .6 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 1. | J |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 99. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 22. | |

0240706

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

#8;32-33.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG116

Sample wt/vol: 5 (g/mL) G Lab File ID: >G116D

Level: (low/med) MED Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/23/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 53366384 | Cyclopentane, (2-methylbutyl | 17.32 | 21. | |
| 2. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.33 | 65. | |
| 3. | 95636 | Benzene, 1,2,4-trimethyl- (8 | 19.14 | 73. | |
| 4. | 1795159 | Cyclohexane, octyl- (9CI) | 19.34 | 21. | |
| 5. | 4941531 | 5-Undecene (8CI9CI) | 19.54 | 17. | |
| 6. | 25155151 | Benzene, methyl(1-methylethy | 19.83 | 23. | |
| 7. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 20.03 | 24. | |
| 8. | 91178 | Naphthalene, decahydro- (8CI | 20.27 | 28. | |
| 9. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.56 | 96. | |
| 10. | 1074551 | Benzene, 1-methyl-4-propyl- | 20.96 | 18. | |
| 11. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.25 | 38. | |
| 12. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.45 | 48. | |
| 13. | 33877871 | Azulene, 1,2,3,3a-tetrahydro | 21.73 | 54. | |
| 14. | 488233 | Benzene, 1,2,3,4-tetramethyl | 22.10 | 56. | |
| 15. | 527537 | Benzene, 1,2,3,5-tetramethyl | 22.30 | 24. | |
| 16. | 2050240 | Benzene, 1,3-diethyl-5-methy | 22.79 | 50. | |
| 17. | 527537 | Benzene, 1,2,3,5-tetramethyl | 23.15 | 82. | |
| 18. | 6682719 | 1H-Indene, 2,3-dihydro-4,7-d | 24.01 | 38. | |
| 19. | 275514 | Azulene (8CI9CI) | 24.53 | 20. | |
| 20. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.76 | 18. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
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| 30. | | | | | |

0240707

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
#8;42-43.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >DG117

Sample wt/vol: 5 (g/mL) G Lab File ID: >DG117

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | IU |
| 74-83-9 | Bromomethane | 10. | IU |
| 75-01-4 | Vinyl Chloride | 10. | IU |
| 75-00-3 | Chloroethane | 10. | IU |
| 75-09-2 | Methylene_Chloride | 5. | IJB |
| 67-64-1 | Acetone | 10. | IJB |
| 75-15-0 | Carbon Disulfide | 1. | IJB |
| 75-35-4 | 1,1-Dichloroethene | 5. | IU |
| 75-34-3 | 1,1-Dichloroethane | 5. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | IU |
| 67-66-3 | Chloroform | 5. | IU |
| 107-02-2 | 1,2-Dichloroethane | 5. | IU |
| 78-93-3 | 2-Butanone | 10. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | IU |
| 56-23-5 | Carbon Tetrachloride | 5. | IU |
| 108-05-4 | Vinyl Acetate | 10. | IU |
| 75-27-4 | Bromodichloromethane | 5. | IU |
| 78-87-5 | 1,2-Dichloropropane | 2. | IJ |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | IU |
| 79-01-6 | Trichloroethene | 5. | IU |
| 124-48-1 | Dibromochloromethane | 5. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | IU |
| 71-43-2 | Benzene | 5. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | IU |
| 75-25-2 | Bromoform | 5. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | IU |
| 591-78-6 | 2-Hexanone | 10. | IU |
| 127-18-4 | Tetrachloroethene | 5. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | IU |
| 108-88-3 | Toluene | .8 | IJB |
| 108-90-7 | Chlorobenzene | 5. | IU |
| 100-41-4 | Ethylbenzene | 20. | I B |
| 100-42-5 | Styrene | 5. | IU |
| 133-02-7 | Xylene (total) | 5. | IJ |

0240708

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#8;42-43.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >0G117

Sample wt/vol: 5 (g/mL) G Lab File ID: >0G117

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.41 | 93. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.61 | 76. | |
| 3. | 95636 | Benzene, 1,2,4-trimethyl- (8 | 19.18 | 84. | |
| 4. | 2847725 | Decane, 4-methyl- (8CI9CI) | 19.62 | 61. | |
| 5. | 1120214 | Undecane (8CI9CI) | 20.56 | 380. | |
| 6. | 25155151 | Benzene, methyl(1-methylethyl | 21.25 | 47. | |
| 7. | 535773 | Benzene, 1-methyl-3-(1-methyl | 21.49 | 58. | |
| 8. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.77 | 130. | |
| 9. | 62238113 | Decane, 2,3,5-trimethyl- (9C | 22.14 | 54. | |
| 10. | 112403 | Dodecane (8CI9CI) | 22.83 | 390. | |
| 11. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 23.03 | 82. | |
| 12. | 488233 | Benzene, 1,2,3,4-tetramethyl | 23.19 | 100. | |
| 13. | 4292755 | Cyclohexane, hexyl- (9CI) | 24.12 | 150. | |
| 14. | 2471843 | 1H-Indene, 1-methylene- (9CI | 24.53 | 89. | |
| 15. | 629505 | Tridecane (8CI9CI) | 24.94 | 200. | |
| 16. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.80 | 180. | |
| 17. | 90120 | Naphthalene, 1-methyl- (8CI9 | 27.25 | 60. | |
| 18. | 17301278 | Undecane, 2,10-dimethyl- (8C | 27.94 | 56. | |
| 19. | 571584 | Naphthalene, 1,4-dimethyl- ( | 28.87 | 79. | |
| 20. | 569415 | Naphthalene, 1,8-dimethyl- ( | 29.28 | 80. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240709

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

#8;48-49.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG118

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG118

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 16. | B |
| 75-15-0 | Carbon Disulfide | 5. | JB |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 2. | J |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 1. | JB |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .6 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240710

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
#8;48-49.5'

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >OG118

Sample wt/vol: 5 (g/mL) G Lab File ID: >OG118

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.1 Date Analyzed: 9/22/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 63. | |
| 2. | | Unknown | 1.26 | 7. | |
| 3. | | Unknown | 4.77 | 11. | |
| 4. | 95636 | Benzene, 1,2,4-trimethyl- (8 | 18.45 | 5. | |
| 5. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.61 | 7. | |
| 6. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 19.18 | 6. | |
| 7. | 17302237 | Nonane, 4,5-dimethyl- (8CI9C | 20.55 | 10. | |
| 8. | 2958761 | Naphthalene, decahydro-2-met | 21.48 | 4. | |
| 9. | 1678917 | Cyclohexane, ethyl- (8CI9CI) | 21.81 | 5. | |
| 10. | 112403 | Dodecane (8CI9CI) | 22.82 | 11. | |
| 11. | 275514 | Azulene (8CI9CI) | 24.52 | 3. | |
| 12. | 629505 | Tridecane (8CI9CI) | 24.93 | 6. | |
| 13. | 17312537 | Decane, 3,6-dimethyl- (8CI9C | 26.30 | 4. | |
| 14. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.79 | 17. | |
| 15. | 91576 | Naphthalene, 2-methyl- (8CI9 | 27.28 | 6. | |
| 16. | 25117242 | Tetradecane, 4-methyl- (8CI9 | 27.92 | 5. | |
| 17. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.73 | 4. | |
| 18. | 571619 | Naphthalene, 1,5-dimethyl- ( | 28.86 | 10. | |
| 19. | 571584 | Naphthalene, 1,4-dimethyl- ( | 29.30 | 12. | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

09-Dec-89

0240711

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-1
**SAMPLE I.D.:** DS88-100 (0-2)

**DATE SAMPLED :** 11-12-89/0740
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

0240712

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-2
**SAMPLE I.D.:** DS88-100 (2-4)

**DATE SAMPLED :** 11-12-89/0750
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | 3100 | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | 26000 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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A Litton/Dresser Company

# CORE LABORATORIES

0240713

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-3
**SAMPLE I.D.:** DS88-100 (4-6)

**DATE SAMPLED :** 11-12-89/0810
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | ND(625) | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | 24000 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

10-Dec-89

0240714

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-4
**SAMPLE I.D.:** DS88-100 (6-8)

**DATE SAMPLED :** 11-12-89/0820
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(250000) | ug/Kg |
| Benzene | ND(2500) | ug/Kg |
| Bromodichloromethane | ND(12500) | ug/Kg |
| Bromoform | ND(12500) | ug/Kg |
| Bromomethane | ND(25000) | ug/Kg |
| 2-Butanone | ND(250000) | ug/Kg |
| Carbon disulfide | ND(12500) | ug/Kg |
| Carbon tetrachloride | ND(12500) | ug/Kg |
| Chlorobenzene | ND(12500) | ug/Kg |
| Chloroethane | ND(25000) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(25000) | ug/Kg |
| Chloroform | ND(12500) | ug/Kg |
| Chloromethane | ND(25000) | ug/Kg |
| Dibromochloromethane | ND(12500) | ug/Kg |
| 1,1-Dichloroethane | ND(12500) | ug/Kg |
| 1,2-Dichloroethane | ND(12500) | ug/Kg |
| 1,1-Dichloroethene | ND(12500) | ug/Kg |
| trans-1,2-Dichloroethene | ND(12500) | ug/Kg |
| 1,2-Dichloropropane | ND(12500) | ug/Kg |
| cis-1,3-Dichloropropene | ND(12500) | ug/Kg |
| trans-1,3-Dichloropropene | ND(12500) | ug/Kg |
| Ethyl benzene | ND(12500) | ug/Kg |
| 2-Hexanone | ND(125000) | ug/Kg |
| 4-Methyl-2-pentanone | ND(125000) | ug/Kg |
| Methylene chloride | 26000 | ug/Kg |
| Styrene | ND(12500) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(12500) | ug/Kg |
| Tetrachloroethene | ND(12500) | ug/Kg |
| Toluene | ND(12500) | ug/Kg |
| 1,1,1-Trichloroethane | ND(12500) | ug/Kg |
| 1,1,2-Trichloroethane | ND(12500) | ug/Kg |
| Trichloroethene | ND(12500) | ug/Kg |
| Vinyl acetate | ND(125000) | ug/Kg |
| Vinyl chloride | ND(25000) | ug/Kg |
| Xylenes (total) | 460000 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240715

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-5
**SAMPLE I.D.:** DS88-100 (8-10)

**DATE SAMPLED :** 11-12-89/0832
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(250) | ug/Kg |
| Benzene | ND(3) | ug/Kg |
| Bromodichloromethane | ND(13) | ug/Kg |
| Bromoform | ND(13) | ug/Kg |
| Bromomethane | ND(25) | ug/Kg |
| 2-Butanone | ND(250) | ug/Kg |
| Carbon disulfide | ND(13) | ug/Kg |
| Carbon tetrachloride | ND(13) | ug/Kg |
| Chlorobenzene | ND(13) | ug/Kg |
| Chloroethane | ND(25) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(25) | ug/Kg |
| Chloroform | ND(13) | ug/Kg |
| Chloromethane | ND(25) | ug/Kg |
| Dibromochloromethane | ND(13) | ug/Kg |
| 1,1-Dichloroethane | ND(13) | ug/Kg |
| 1,2-Dichloroethane | ND(13) | ug/Kg |
| 1,1-Dichloroethene | ND(13) | ug/Kg |
| trans-1,2-Dichloroethene | ND(13) | ug/Kg |
| 1,2-Dichloropropane | ND(13) | ug/Kg |
| cis-1,3-Dichloropropene | ND(13) | ug/Kg |
| trans-1,3-Dichloropropene | ND(13) | ug/Kg |
| Ethyl benzene | ND(13) | ug/Kg |
| 2-Hexanone | ND(125) | ug/Kg |
| 4-Methyl-2-pentanone | ND(125) | ug/Kg |
| Methylene chloride | 13 | ug/Kg |
| Styrene | ND(13) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(13) | ug/Kg |
| Tetrachloroethene | ND(13) | ug/Kg |
| Toluene | ND(13) | ug/Kg |
| 1,1,1-Trichloroethane | ND(13) | ug/Kg |
| 1,1,2-Trichloroethane | ND(13) | ug/Kg |
| Trichloroethene | ND(13) | ug/Kg |
| Vinyl acetate | ND(125) | ug/Kg |
| Vinyl chloride | ND(25) | ug/Kg |
| Xylenes (total) | ND(13 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240716

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-5
**SAMPLE I.D.:** DS88-100 (8-10)

**DATE SAMPLED :** 11-12-89/0832
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | ND(625) | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | ND(625 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240717

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-6
**SAMPLE I.D.:** DS88-100 (10-12)

**DATE SAMPLED :** 11-12-89/0840
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | ND(625) | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | 2400 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240718

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-7
**SAMPLE I.D.:** DS88-100 (12-14)

**DATE SAMPLED :** 11-12-89/0845
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240719

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-8
**SAMPLE I.D.:** DS88-100 (14-16)

**DATE SAMPLED :** 11-12-89/0852
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | ND(625) | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | 1200 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

10-Dec-89

0240720

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-9
**SAMPLE I.D.:** DS88-100 (16-18)

**DATE SAMPLED :** 11-12-89/0857
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(250) | ug/Kg |
| Benzene | ND(3) | ug/Kg |
| Bromodichloromethane | ND(13) | ug/Kg |
| Bromoform | ND(13) | ug/Kg |
| Bromomethane | ND(25) | ug/Kg |
| 2-Butanone | ND(250) | ug/Kg |
| Carbon disulfide | ND(13) | ug/Kg |
| Carbon tetrachloride | ND(13) | ug/Kg |
| Chlorobenzene | ND(13) | ug/Kg |
| Chloroethane | ND(25) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(25) | ug/Kg |
| Chloroform | ND(13) | ug/Kg |
| Chloromethane | ND(25) | ug/Kg |
| Dibromochloromethane | ND(13) | ug/Kg |
| 1,1-Dichloroethane | ND(13) | ug/Kg |
| 1,2-Dichloroethane | ND(13) | ug/Kg |
| 1,1-Dichloroethene | ND(13) | ug/Kg |
| trans-1,2-Dichloroethene | ND(13) | ug/Kg |
| 1,2-Dichloropropane | ND(13) | ug/Kg |
| cis-1,3-Dichloropropene | ND(13) | ug/Kg |
| trans-1,3-Dichloropropene | ND(13) | ug/Kg |
| Ethyl benzene | ND(13) | ug/Kg |
| 2-Hexanone | ND(125) | ug/Kg |
| 4-Methyl-2-pentanone | ND(125) | ug/Kg |
| Methylene chloride | ND(13) | ug/Kg |
| Styrene | ND(13) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(13) | ug/Kg |
| Tetrachloroethene | ND(13) | ug/Kg |
| Toluene | ND(13) | ug/Kg |
| 1,1,1-Trichloroethane | ND(13) | ug/Kg |
| 1,1,2-Trichloroethane | ND(13) | ug/Kg |
| Trichloroethene | ND(13) | ug/Kg |
| Vinyl acetate | ND(125) | ug/Kg |
| Vinyl chloride | ND(25) | ug/Kg |
| Xylenes (total) | ND(13) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240721

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-9
**SAMPLE I.D.:** DS88-100 (16-18)

**DATE SAMPLED :** 11-12-89/0857
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(12500) | ug/Kg |
| Benzene | ND(125) | ug/Kg |
| Bromodichloromethane | ND(625) | ug/Kg |
| Bromoform | ND(625) | ug/Kg |
| Bromomethane | ND(1250) | ug/Kg |
| 2-Butanone | ND(12500) | ug/Kg |
| Carbon disulfide | ND(625) | ug/Kg |
| Carbon tetrachloride | ND(625) | ug/Kg |
| Chlorobenzene | ND(625) | ug/Kg |
| Chloroethane | ND(1250) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(1250) | ug/Kg |
| Chloroform | ND(625) | ug/Kg |
| Chloromethane | ND(1250) | ug/Kg |
| Dibromochloromethane | ND(625) | ug/Kg |
| 1,1-Dichloroethane | ND(625) | ug/Kg |
| 1,2-Dichloroethane | ND(625) | ug/Kg |
| 1,1-Dichloroethene | ND(625) | ug/Kg |
| trans-1,2-Dichloroethene | ND(625) | ug/Kg |
| 1,2-Dichloropropane | ND(625) | ug/Kg |
| cis-1,3-Dichloropropene | ND(625) | ug/Kg |
| trans-1,3-Dichloropropene | ND(625) | ug/Kg |
| Ethyl benzene | ND(625) | ug/Kg |
| 2-Hexanone | ND(6250) | ug/Kg |
| 4-Methyl-2-pentanone | ND(6250) | ug/Kg |
| Methylene chloride | ND(625) | ug/Kg |
| Styrene | ND(625) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(625) | ug/Kg |
| Tetrachloroethene | ND(625) | ug/Kg |
| Toluene | ND(625) | ug/Kg |
| 1,1,1-Trichloroethane | ND(625) | ug/Kg |
| 1,1,2-Trichloroethane | ND(625) | ug/Kg |
| Trichloroethene | ND(625) | ug/Kg |
| Vinyl acetate | ND(6250) | ug/Kg |
| Vinyl chloride | ND(1250) | ug/Kg |
| Xylenes (total) | ND(625) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

09-Dec-89

0240722

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-10
**SAMPLE I.D.:** DS88-100 (18-20)

**DATE SAMPLED :** 11-12-89/0900
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | 67 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240723

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-10 duplicate
**SAMPLE I.D.:** DS88-100 (18-20)

**DATE SAMPLED :** 11-12-89/0900
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | 82 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240724

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-11
**SAMPLE I.D.:** DS88-100 (20-22)

**DATE SAMPLED :** 11-12-89/0903
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240725

09-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-12
**SAMPLE I.D.:** DS88-100 (22-24)

**DATE SAMPLED :** 11-12-89/0912
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240726

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-13
**SAMPLE I.D.:** DS88-100 (24-26)

**DATE SAMPLED :** 11-12-89/0918
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

09-Dec-89

0240727

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-14
**SAMPLE I.D.:** DS88-100 FIELD BLANK

**DATE SAMPLED :** 11-12-89/0927
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/L |
| Benzene | ND(1) | ug/L |
| Bromodichloromethane | ND(5) | ug/L |
| Bromoform | ND(5) | ug/L |
| Bromomethane | ND(10) | ug/L |
| 2-Butanone | ND(100) | ug/L |
| Carbon disulfide | ND(5) | ug/L |
| Carbon tetrachloride | ND(5) | ug/L |
| Chlorobenzene | ND(5) | ug/L |
| Chloroethane | ND(10) | ug/L |
| 2-Chloroethyl vinyl ether | ND(10) | ug/L |
| Chloroform | ND(5) | ug/L |
| Chloromethane | ND(10) | ug/L |
| Dibromochloromethane | ND(5) | ug/L |
| 1,1-Dichloroethane | ND(5) | ug/L |
| 1,2-Dichloroethane | ND(5) | ug/L |
| 1,1-Dichloroethene | ND(5) | ug/L |
| trans-1,2-Dichloroethene | ND(5) | ug/L |
| 1,2-Dichloropropane | ND(5) | ug/L |
| cis-1,3-Dichloropropene | ND(5) | ug/L |
| trans-1,3-Dichloropropene | ND(5) | ug/L |
| Ethyl benzene | ND(5) | ug/L |
| 2-Hexanone | ND(50) | ug/L |
| 4-Methyl-2-pentanone | ND(50) | ug/L |
| Methylene chloride | ND(5) | ug/L |
| Styrene | ND(5) | ug/L |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/L |
| Tetrachloroethene | ND(5) | ug/L |
| Toluene | ND(5) | ug/L |
| 1,1,1-Trichloroethane | ND(5) | ug/L |
| 1,1,2-Trichloroethane | ND(5) | ug/L |
| Trichloroethene | ND(5) | ug/L |
| Vinyl acetate | ND(50) | ug/L |
| Vinyl chloride | ND(10) | ug/L |
| Xylenes (total) | ND(5) | ug/L |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

09-Dec-89

0240723

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-15
**SAMPLE I.D.:** DS88-100 (26-28)

**DATE SAMPLED :** 11-12-89/0928
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

0240729

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-16
SAMPLE I.D.: DS88-100 (28-30)

DATE SAMPLED : 11-12-89/0932
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

Western Atlas International
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# CORE LABORATORIES

0240730

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-17
**SAMPLE I.D.:** DS88-100 (30-32)

**DATE SAMPLED :** 11-12-89/0940
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be laboratory contamination

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# CORE LABORATORIES

0240731

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-18
**SAMPLE I.D.:** DS88-100 (34-36)

**DATE SAMPLED :** 11-12-89/0945
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240732

09-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-19
**SAMPLE I.D.:** DS88-100 (36-38)

**DATE SAMPLED :** 11-12-89/1002
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240733

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-20
**SAMPLE I.D.:** DS88-100A (0-2)

**DATE SAMPLED :** 11-12-89/1050
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 23 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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A Litton/Dresser Company

# CORE LABORATORIES

10-Dec-89

0240734

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-20 Matrix Spike
**SAMPLE I.D.:** DS88-100A (0-2)

**DATE SAMPLED :** 11-12-89/1050
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | 43 | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | 50 | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | 38 | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 16 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | 56 | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | 46 | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be laboratory contamination

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A Litton/Dresser Company

# CORE LABORATORIES

10-Dec-89

0240735

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-20 Matrix Spike Duplicate
**SAMPLE I.D.:** DS88-100A (0-2)

**DATE SAMPLED :** 11-12-89/1050
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | 44 | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | 51 | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | 36 | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 14 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | 54 | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | 47 | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be laboratory contamination

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# CORE LABORATORIES

0240736

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-21
**SAMPLE I.D.:** DS88-100A (2-4)

**DATE SAMPLED :** 11-12-89/1100
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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A Litton/Dresser Company

# CORE LABORATORIES

10-Dec-89

0240737

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-22
**SAMPLE I.D.:** DS88-100A (4-6)

**DATE SAMPLED :** 11-12-89/1110
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

10-Dec-89

0240738

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-23
**SAMPLE I.D.:** DS88-100A (6-8)

**DATE SAMPLED :** 11-12-89/1122
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240739

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-24
**SAMPLE I.D.:** DS88-100A (8-10)

**DATE SAMPLED :** 11-12-89/1130
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

10-Dec-89

0240740

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-25
SAMPLE I.D.: DS88-100A (10-12)

DATE SAMPLED : 11-12-89/1142
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

10-Dec-89

0240741

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-26
**SAMPLE I.D.:** DS88-100A (12-14)

**DATE SAMPLED :** 11-12-89/1150
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240742

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-27
**SAMPLE I.D.:** DS88-100A (14-16)

**DATE SAMPLED :** 11-12-89/1200
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 10 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

The analyses, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgement of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations, or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

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A Litton/Dresser Company

# CORE LABORATORIES

10-Dec-89

0240743

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-28
**SAMPLE I.D.:** DS88-100A (16-18)

**DATE SAMPLED :** 11-12-89/1210
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 10 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240744

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-29
**SAMPLE I.D.:** DS88-100A (18-20)

**DATE SAMPLED :** 11-12-89/1215
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 10 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240745

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-30
**SAMPLE I.D.:** DS88-100A (20-22)

**DATE SAMPLED :** 11-12-89/1225
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 11 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

0240746

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-30 duplicate
**SAMPLE I.D.:** DS88-100A (20-22)

**DATE SAMPLED :** 11-12-89/1225
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 11 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240747

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-31
**SAMPLE I.D.:** DS88-100A (22-24)

**DATE SAMPLED :** 11-12-89/1235
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240748

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-32
**SAMPLE I.D.:** DS88-100A (24-26)

**DATE SAMPLED :** 11-12-89/1240
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 10 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240749

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-33
**SAMPLE I.D.:** DS88-100A (26-28)

**DATE SAMPLED :** 11-12-89/1250
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240750

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-34
**SAMPLE I.D.:** DS88-100A (28-30)

**DATE SAMPLED :** 11-12-89/1255
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240751

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-35
**SAMPLE I.D.:** DS88-100A (30-32)

**DATE SAMPLED :** 11-12-89/1300
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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A Litton/Dresser Company

# CORE LABORATORIES

0240752

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-36
**SAMPLE I.D.:** DS88-100A (32-34)

**DATE SAMPLED :** 11-12-89/1310
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240753

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-37
**SAMPLE I.D.:** DS88-100A (34-36)

**DATE SAMPLED :** 11-12-89/1320
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 7 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240754

10-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-38
**SAMPLE I.D.:** DS88-101 (0-2)

**DATE SAMPLED :** 11-12-89/1415
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

0240755

10-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-39
**SAMPLE I.D.:** DS88-101 (2-4)

**DATE SAMPLED :** 11-12-89/1430
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 7 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | 7 | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | 270 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

10-Dec-89

0240756

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-40
**SAMPLE I.D.:** DS88-101 (4-6)

**DATE SAMPLED :** 11-12-89/1440
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 7 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | 40 | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240757

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-41
**SAMPLE I.D.:** DS88-101 (6-8)

**DATE SAMPLED :** 11-12-89/1450
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240753

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-42
**SAMPLE I.D.:** DS88-101 (8-10)

**DATE SAMPLED :** 11-12-89/1500
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

0240759

11-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-43
**SAMPLE I.D.:** DS88-101 (10-12)

**DATE SAMPLED :** 11-12-89/1505
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

0240760

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-45
**SAMPLE I.D.:** DS88-101 (14-16)

**DATE SAMPLED :** 11-12-89/1515
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-46
**SAMPLE I.D.:** DS88-101 (16-18)

**DATE SAMPLED :** 11-12-89/1520
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

The analysis, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-47
**SAMPLE I.D.:** DS88-101 (18-20)

**DATE SAMPLED :** 11-12-89/1525
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

The analysis, opinions or interpretations contained in this report are based upon observations and material supplied by the client for whose exclusive and confidential use this report has been made. The interpretations or opinions expressed represent the best judgment of Core Laboratories. Core Laboratories assumes no responsibility and makes no warranty or representations, express or implied, as to the productivity, proper operations or profitableness however of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon for any reason whatsoever.

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-48
**SAMPLE I.D.:** DS88-101 (20-22)

**DATE SAMPLED :** 11-12-89/1530
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 17 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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**CORE LABORATORIES**

11-Dec-89

**O'BRIEN & GERE ENGINEERS, INC.**

**FILE #:**57209-891540-49
**SAMPLE I.D.:** DS88-101 (22-24)

**DATE SAMPLED :** 11-12-89/1540
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | ND(5) | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-50
SAMPLE I.D.: DS88-101 (24-26)

DATE SAMPLED : 11-12-89/1545
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contamimant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-50 duplicate
**SAMPLE I.D.:** DS88-101 (24-26)

**DATE SAMPLED :** 11-12-89/1545
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contamimant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-51
SAMPLE I.D.: DS88-101 (26-28)

DATE SAMPLED : 11-12-89/1550
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-52
**SAMPLE I.D.:** DS88-101 (28-30)

**DATE SAMPLED :** 11-12-89/1555
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 7 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contamimant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEE[illegible], INC.

FILE #:57209-891540-53
SAMPLE I.D.: DS88-101 (30-32)

DATE SAMPLED : 11-12-89/1600
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | [illegible]D(100) | ug/Kg |
| Benzene | [illegible]D(1) | ug/Kg |
| Bromodichloromethane | [illegible]D(5) | ug/Kg |
| Bromoform | [illegible]D(5) | ug/Kg |
| Bromomethane | [illegible]D(10) | ug/Kg |
| 2-Butanone | [illegible]D(100) | ug/Kg |
| Carbon disulfide | [illegible]D(5) | ug/Kg |
| Carbon tetrachloride | [illegible]D(5) | ug/Kg |
| Chlorobenzene | [illegible]D(5) | ug/Kg |
| Chloroethane | [illegible]D(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | [illegible]D(10) | ug/Kg |
| Chloroform | [illegible]D(5) | ug/Kg |
| Chloromethane | [illegible]D(10) | ug/Kg |
| Dibromochloromethane | [illegible]D(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | [illegible]D(5) | ug/Kg |
| trans-1,2-Dichloroethene | [illegible]D(5) | ug/Kg |
| 1,2-Dichloropropane | [illegible]D(5) | ug/Kg |
| cis-1,3-Dichloropropene | [illegible]D(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | [illegible]D(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | [illegible]D(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-54
SAMPLE I.D.: DS88-101 (32-34)

DATE SAMPLED : 11-12-89/1603
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

FILE #:57209-891540-55
SAMPLE I.D.: DS88-101 (34-36)

DATE SAMPLED : 11-12-89/1605
DATE RECEIVED: 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 9 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-56
**SAMPLE I.D.:** DS88-101 (36-38)

**DATE SAMPLED :** 11-12-89/1610
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/Kg |
| Benzene | ND(1) | ug/Kg |
| Bromodichloromethane | ND(5) | ug/Kg |
| Bromoform | ND(5) | ug/Kg |
| Bromomethane | ND(10) | ug/Kg |
| 2-Butanone | ND(100) | ug/Kg |
| Carbon disulfide | ND(5) | ug/Kg |
| Carbon tetrachloride | ND(5) | ug/Kg |
| Chlorobenzene | ND(5) | ug/Kg |
| Chloroethane | ND(10) | ug/Kg |
| 2-Chloroethyl vinyl ether | ND(10) | ug/Kg |
| Chloroform | ND(5) | ug/Kg |
| Chloromethane | ND(10) | ug/Kg |
| Dibromochloromethane | ND(5) | ug/Kg |
| 1,1-Dichloroethane | ND(5) | ug/Kg |
| 1,2-Dichloroethane | ND(5) | ug/Kg |
| 1,1-Dichloroethene | ND(5) | ug/Kg |
| trans-1,2-Dichloroethene | ND(5) | ug/Kg |
| 1,2-Dichloropropane | ND(5) | ug/Kg |
| cis-1,3-Dichloropropene | ND(5) | ug/Kg |
| trans-1,3-Dichloropropene | ND(5) | ug/Kg |
| Ethyl benzene | ND(5) | ug/Kg |
| 2-Hexanone | ND(50) | ug/Kg |
| 4-Methyl-2-pentanone | ND(50) | ug/Kg |
| Methylene chloride | 8 | ug/Kg |
| Styrene | ND(5) | ug/Kg |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/Kg |
| Tetrachloroethene | ND(5) | ug/Kg |
| Toluene | ND(5) | ug/Kg |
| 1,1,1-Trichloroethane | ND(5) | ug/Kg |
| 1,1,2-Trichloroethane | ND(5) | ug/Kg |
| Trichloroethene | ND(5) | ug/Kg |
| Vinyl acetate | ND(50) | ug/Kg |
| Vinyl chloride | ND(10) | ug/Kg |
| Xylenes (total) | ND(5) | ug/Kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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# CORE LABORATORIES

11-Dec-89

O'BRIEN & GERE ENGINEERS, INC.

**FILE #:**57209-891540-57
**SAMPLE I.D.:** TRIP BLANK

**DATE SAMPLED :** 11-12-89
**DATE RECEIVED:** 11-14-89/0900

| EPA 8240 VOLATILE COMPOUNDS | CONCENTRATION | UNITS |
|---|---|---|
| Acetone | ND(100) | ug/L |
| Benzene | ND(1) | ug/L |
| Bromodichloromethane | ND(5) | ug/L |
| Bromoform | ND(5) | ug/L |
| Bromomethane | ND(10) | ug/L |
| 2-Butanone | ND(100) | ug/L |
| Carbon disulfide | ND(5) | ug/L |
| Carbon tetrachloride | ND(5) | ug/L |
| Chlorobenzene | ND(5) | ug/L |
| Chloroethane | ND(10) | ug/L |
| 2-Chloroethyl vinyl ether | ND(10) | ug/L |
| Chloroform | ND(5) | ug/L |
| Chloromethane | ND(10) | ug/L |
| Dibromochloromethane | ND(5) | ug/L |
| 1,1-Dichloroethane | ND(5) | ug/L |
| 1,2-Dichloroethane | ND(5) | ug/L |
| 1,1-Dichloroethene | ND(5) | ug/L |
| trans-1,2-Dichloroethene | ND(5) | ug/L |
| 1,2-Dichloropropane | ND(5) | ug/L |
| cis-1,3-Dichloropropene | ND(5) | ug/L |
| trans-1,3-Dichloropropene | ND(5) | ug/L |
| Ethyl benzene | ND(5) | ug/L |
| 2-Hexanone | ND(50) | ug/L |
| 4-Methyl-2-pentanone | ND(50) | ug/L |
| Methylene chloride | 8 | ug/L |
| Styrene | ND(5) | ug/L |
| 1,1,2,2-Tetrachloroethane | ND(5) | ug/L |
| Tetrachloroethene | ND(5) | ug/L |
| Toluene | ND(5) | ug/L |
| 1,1,1-Trichloroethane | ND(5) | ug/L |
| 1,1,2-Trichloroethane | ND(5) | ug/L |
| Trichloroethene | ND(5) | ug/L |
| Vinyl acetate | ND(50) | ug/L |
| Vinyl chloride | ND(10) | ug/L |
| Xylenes (total) | ND(5) | ug/L |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS
Methylene Chloride may be lab contaminant

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ORATORIES

SAMPLE ID

DS88 101 COMP

# INORGANIC ANALYSES DATA SHEET

Lab Name: CORE LABORATORIES Contract:

Lab Code: 891540-60 Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): _____ Date Received:

% Solids: 95.0%

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2160. | | | P |
| 7440-36-0 | Antimony | 0.2 | U | | F |
| 7440-38-2 | Arsenic | 5.8 | | | F |
| 7440-39-3 | Barium | 115. | | | P |
| 7440-41-7 | Beryllium | 0.2 | B | | P |
| 7440-43-9 | Cadmium | 0.2 | U | | P |
| 7440-70-2 | Calcium | 11100. | | | P |
| 7440-47-3 | Chromium | 7.9 | | | P |
| 7440-48-4 | Cobalt | 1.5 | B | | P |
| 7440-50-8 | Copper | 5.0 | | | P |
| 7439-89-6 | Iron | 4890. | | | P |
| 7439-92-1 | Lead | 8.4 | | | F |
| 7439-95-4 | Magnesium | 1280. | | | P |
| 7439-96-5 | Manganese | 98.1 | | | P |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | 6.2 | | | P |
| 7440-09-7 | Potassium | 535. | | | P |
| 7782-49-2 | Selenium | 0.4 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | 260. | B | | P |
| 7440-28-0 | Thallium | 0.1 | U | | F |
| 7440-62-2 | Vanadium | 10.6 | | | P |
| 7440-66-6 | Zinc | 18.5 | | | P |
| | | . | | | |

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: _____

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# CORE LABORATORIES

1

## INORGANIC ANALYSES DATA SHEET

SAMPLE ID: DS88 100A COMP

Lab Name: CORE LABORATORIES Contract:

Lab Code: 891540-59 Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): _____ Date Received:

% Solids: 94.6%

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1270. | | | P |
| 7440-36-0 | Antimony | 0.2 | U | | F |
| 7440-38-2 | Arsenic | 6.0 | | | F |
| 7440-39-3 | Barium | 26.0 | | | P |
| 7440-41-7 | Beryllium | 0.2 | B | | P |
| 7440-43-9 | Cadmium | 0.2 | U | | P |
| 7440-70-2 | Calcium | 2800. | | | P |
| 7440-47-3 | Chromium | 3.2 | | | P |
| 7440-48-4 | Cobalt | 1.1 | B | | P |
| 7440-50-8 | Copper | 2.2 | B | | P |
| 7439-89-6 | Iron | 3020. | | | P |
| 7439-92-1 | Lead | 6.3 | | | F |
| 7439-95-4 | Magnesium | 731. | | | P |
| 7439-96-5 | Manganese | 65.4 | | | P |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | 1.9 | B | | P |
| 7440-09-7 | Potassium | 415. | B | | P |
| 7782-49-2 | Selenium | 0.4 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | 120. | B | | P |
| 7440-28-0 | Thallium | 0.1 | U | | F |
| 7440-62-2 | Vanadium | 5.9 | | | P |
| 7440-66-6 | Zinc | 11.6 | | | P |
| | | . | | | |

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: _____

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# CORE LABORATORIES

1

## INORGANIC ANALYSES DATA SHEET

SAMPLE ID: DS88 100 COMP

Lab Name: CORE LABORATORIES Contract:

Lab Code: 891540-58 Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): _____ Date Received:

% Solids: 98.6%

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2030. | | | P |
| 7440-36-0 | Antimony | 0.2 | U | | F |
| 7440-38-2 | Arsenic | 10.1 | | | F |
| 7440-39-3 | Barium | 39.2 | | | P |
| 7440-41-7 | Beryllium | 0.2 | B | | P |
| 7440-43-9 | Cadmium | 0.3 | B | | P |
| 7440-70-2 | Calcium | 5490. | | | P |
| 7440-47-3 | Chromium | 4.0 | | | P |
| 7440-48-4 | Cobalt | 2.1 | B | | P |
| 7440-50-8 | Copper | 3.9 | | | P |
| 7439-89-6 | Iron | 4620. | | | P |
| 7439-92-1 | Lead | 8.1 | | | F |
| 7439-95-4 | Magnesium | 1450. | | | P |
| 7439-96-5 | Manganese | 81.9 | | | P |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | 3.3 | B | | P |
| 7440-09-7 | Potassium | 590. | | | P |
| 7782-49-2 | Selenium | 0.4 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | 190. | B | | P |
| 7440-28-0 | Thallium | 0.1 | U | | F |
| 7440-62-2 | Vanadium | 8.1 | | | P |
| 7440-66-6 | Zinc | 14.4 | | | P |
| | | | | | |

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: _____

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240777

Matrix: (soil/water) SOIL  Lab Sample ID: B4056

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: B4056

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 14  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 340. | J | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 680. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 680. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 680. | U | |
| 100-51-6 | Benzyl alcohol | 680. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 680. | U | |
| 95-48-7 | 2-Methylphenol | 140. | J | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 130. | J | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 260. | JB | |
| 67-72-1 | Hexachloroethane | 680. | U | |
| 98-95-3 | Nitrobenzene | 680. | U | |
| 78-59-1 | Isophorone | 110. | J | |
| 88-75-5 | 2-Nitrophenol | 680. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U | X |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 680. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 680. | U | |
| 91-20-3 | Naphthalene | 1500. | | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 680. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 680. | U | |
| 91-57-6 | 2-Methylnaphthalene | 78. | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 680. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 680. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 680. | U | |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 680. | U | |
| 208-96-8 | Acenaphthylene | 680. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 10. | U | X |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240778

Matrix: (soil/water) SOIL  Lab Sample ID: B4058

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B4058

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 630. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 680. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 680. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 680. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 680. | U | |
| 118-74-1 | Hexachlorobenzene | 680 | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1400. | U | |
| 56-55-3 | Benzo(a)anthracene | 680. | U | |
| 218-01-9 | Chrysene | 680. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1900. | B | |
| 117-84-0 | Di-n-octyl phthalate | 1200. | | |
| 205-99-2 | Benzo(b)fluoranthene | 680. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 680. | U | |
| 50-32-8 | Benzo(a)pyrene | 10. | U | X |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 680. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 680. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 680. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240779

Matrix: (soil/water) SOIL  Lab Sample ID: B4058

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B4058

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 110021 | Thiophene (8CI9CI) | 9.81 | 36. | |
| 2. | 111762 | Ethanol, 2-butoxy- (8CI9CI) | 11.72 | 170. | |
| 3. | 1119444 | 3-Hepten-2-one (8CI9CI) | 12.70 | 48. | |
| 4. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 12.99 | 74. | |
| 5. | 108678 | Benzene, 1,3,5-trimethyl- (9 | 14.48 | 60. | |
| 6. | 611154 | Benzene, 1-ethenyl-2-methyl- | 14.81 | 140. | |
| 7. | 141935 | Benzene, 1,3-diethyl- (9CI) | 15.08 | 58. | |
| 8. | 874419 | Benzene, 1-ethyl-2,4-dimethy | 15.27 | 98. | |
| 9. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.57 | 26. | |
| 10. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.68 | 35. | |
| 11. | 824226 | 1H-Indene, 2,3-dihydro-4-met | 17.11 | 81. | |
| 12. | 119642 | Naphthalene, 1,2,3,4-tetrahy | 17.63 | 100. | |
| 13. | 83330 | 1H-Inden-1-one, 2,3-dihydro- | 20.06 | 140. | |
| 14. | 122576 | 3-Buten-2-one, 4-phenyl- (8C | 20.69 | 19. | |
| 15. | 3141046 | Cyclohexane, 1,4-cyclopentad | 21.32 | 36. | |
| 16. | 3141046 | Cyclohexane, 2,4-cyclopentad | 22.33 | 34. | |
| 17. | 873494 | Benzene, cyclopropyl- (8CI9C | 22.44 | 32. | |
| 18. | 50871040 | Benzene, (1,2-dimethyl-3-but | 26.83 | 82. | |
| 19. | 496162 | Benzofuran, 2,3-dihydro- (8C | 28.02 | 31. | |
| 20. | 108383 | Benzene, 1,3-dimethyl- (9CI) | 28.13 | 35. | |
| 21. | 105231 | Hexanedioic acid, bis(2-ethy | 35.73 | 81. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: D4056  0240780

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >D4058

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 390. | J | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 680. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 680. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 680. | U | |
| 100-51-6 | Benzyl alcohol | 680. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 680. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 150. | J | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 270. | JB | |
| 67-72-1 | Hexachloroethane | 680. | U | |
| 98-95-3 | Nitrobenzene | 680. | U | |
| 78-59-1 | Isophorone | 110. | J | |
| 88-75-5 | 2-Nitrophenol | 680. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 81. | J | |
| 120-83-2 | 2,4-Dichlorophenol | 10. | U | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | 680. | U | |
| 91-20-3 | Naphthalene | 1700. | | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 680. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10. | U | X |
| 91-57-6 | 2-Methylnaphthalene | 90. | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 680. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 680. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 10. | U | X |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 680. | U | |
| 208-96-8 | Acenaphthylene | 680. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 680. | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: D4058  0240781

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >D4058

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50. | U | X |
| 83-32-9 | Acenaphthene | 680. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 680. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 680. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 680. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 680. | U | |
| 118-74-1 | Hexachlorobenzene | 680. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1400. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 250. | JB | |
| 117-84-0 | Di-n-octyl_phthalate | 170. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 680. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 680. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 680. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 680. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 680. | U | |

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
1-13,15-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240782

Matrix: (soil/water) SOIL  Lab Sample ID: D4058

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >D4058

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1117c2 | Ethanol, 2-butoxy- (8CI9CI) | 11.71 | 82. | |
| 2. | 111?444 | 3-Hepten-2-one (8CI9CI) | 12.70 | 32. | |
| 3. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 13.01 | 45. | |
| 4. | 108678 | Benzene, 1,3,5-trimethyl- (9 | 13.17 | 19. | |
| 5. | 98?39 | Benzene, (1-methylethenyl)- | 14.80 | 81. | |
| 6. | 135013 | Benzene, 1,2-diethyl- (9CI) | 15.07 | 34. | |
| 7. | 874419 | Benzene, 1-ethyl-2,4-dimethy | 15.27 | 57. | |
| 8. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.57 | 26. | |
| 9. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.67 | 33. | |
| 10. | 82422o | 1H-Indene, 2,3-dihydro-4-met | 17.11 | 81. | |
| 11 | 119642 | Naphthalene, 1,2,3,4-tetrahy | 17.63 | 110. | |
| 12. | 83330 | 1H-Inden-1-one, 2,3-dihydro- | 20.06 | 140. | |
| 13. | 17498714 | Benzene, (2-methyl-1-methyle | 20.69 | 22. | |
| 14. | 3141046 | Cyclohexane, 2,4-cyclopentad | 21.32 | 26. | |
| 15. | 100801 | Benzene, 1-ethenyl-3-methyl- | 22.06 | 22. | |
| 16. | 3141046 | Cyclohexane, 2,4-cyclopentad | 22.33 | 25. | |
| 17. | 491585 | 4H-1-Benzopyran-4-one (9CI) | 22.43 | 23. | |
| 18. | 7214611 | Benzene, (1-nitroethyl)- (8C | 26.83 | 92. | |
| 19. | 4961c2 | Benzofuran, 2,3-dihydro- (8C | 28.02 | 33. | |
| 20. | 108385 | Benzene, 1,3-dimethyl- (9CI) | 28.12 | 36. | |
| 21. | 123795 | Hexanedioic acid, dioctyl es | 35.71 | 81. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
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1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 20-37

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4059  0240783

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4059

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 350. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 120. | JD | |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 350. | U | |
| 78-59-1 | Isophorone | 47. | J | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1800. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 35. | J | |
| 106-47-8 | 4-Chloroaniline | 350. | U | |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethul Phthalate | 350. | U | |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 20-37

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4059  0240784

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4059

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 350. | U | |
| 84-66-2 | Diethylphthalate | 350. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 350. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 350. | U | |
| 120-12-7 | Anthracene | 350. | U | |
| 84-74-2 | Di-n-butylphthalate | 350. | U | |
| 206-44-0 | Fluoranthene | 350. | U | |
| 129-00-0 | Pyrene | 350. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 91. | JB | |
| 117-84-0 | Di-n-octyl phthalate | 55. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
COMP 20-37

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4059  0240785

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4059

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.4  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
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| 22. | | | | | |
| 23. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
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1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 38-56

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4060  0240786

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4060

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.0  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 350. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 140. | JB | |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 350. | U | |
| 78-59-1 | Isophorone | 46. | J | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1800. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 350. | U | |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethyl Phthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 38-56

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4060

0240737

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4060

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.0  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 350. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 350. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 350. | U | |
| 120-12-7 | Anthracene | 350. | U | |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 350. | U | |
| 129-00-0 | Pyrene | 350. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octyl phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 10. | U | X |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMP 38-56

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4060  0240788

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B4060

Level: (low/med) LOW  Date Received: 11/14/89

% Moisture: not dec. 5.0  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/14/89

GC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 111762 | Ethanol, 2-butoxy- (8CI9CI) | 11.95 | 42. | |
| 1. | | | | | |
| 2. | | | | | |
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| 29. | | | | | |
| 30. | | | | | |

0240799

EAST MOUNTAIN SERVICES

0240790

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMSB (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-16

Level (low/med): LOW Date Received: 5/26/89

% Solids: 90.68%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 7.8 | | | F |
| 7440-39-3 | Barium | 4600 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.4 | B | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 23 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 13.5 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.4 | B | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

7/88

0240791

ELKHORN PRODUCTS

0240702

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 3

Lab Name: COPE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-18

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3018

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. _____ dec. 9.56 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.51 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 280. | J |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 3

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-18

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3018

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec.____ dec. 9.56 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.51 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 69. | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 90. | JB |
| 117-84-0 | Di-n-octyl_Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Comp 3

0240794

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-18

Sample wt/vol: 30 (g/mL) g Lab File ID: B3018

Level: (low/med) Low Date Received: 1/6/89

% Moisture: not dec. _____ dec. 9.56 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) ___ pH: 8.51 Dilution Factor: 1

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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U.S. EPA - CLP

0240795

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890030-18

Level (low/med): LOW Date Received: 1/09/89

% Solids: 90.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 4.5 | | F | |
| 7440-39-3 | Barium | 83.3 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 7.2 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 8.1 | | F | |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.04 | U | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.4 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: _____ Texture: MED.

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0240796

FLEISCHLI OIL

0240707

1B

SE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 0-1.5

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4531

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >B4531

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.9.6 dec. 0.0 Date Extracted:11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 2000. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 2000. | U |
| 95-57-8 | 2-Chlorophenol | 2000. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2000. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2000. | U |
| 100-51-6 | Benzyl alcohol | 2000. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2000. | U |
| 95-48-7 | 2-Methylphenol | 2000. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 2000. | U |
| 106-44-5 | 4-Methylphenol | 2000. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 2000. | U |
| 67-72-1 | Hexachloroethane | 2000. | U |
| 98-95-3 | Nitrobenzene | 2000. | U |
| 78-59-1 | Isophorone | 2000. | U |
| 88-75-5 | 2-Nitrophenol | 2000. | U |
| 105-67-9 | 2,4-Dimethylphenol | 2000. | U |
| 65-85-0 | Benzoic acid | 10000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 2000. | U |
| 120-83-2 | 2,4-Dichlorophenol | 2000. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2000. | U |
| 91-20-3 | Naphthalene | 2000. | U |
| 106-47-8 | 4-Chloroaniline | 3500. | |
| 87-68-3 | Hexachlorobutadiene | 2000. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 2000. | U |
| 91-57-6 | 2-Methylnaphthalene | 2000. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 2000. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10000. | U |
| 91-58-7 | 2-Chloronaphthalene | 2000. | U |
| 88-74-4 | 2-Nitroaniline | 10000. | U |
| 131-11-3 | Dimethyl Phthalate | 2000. | U |
| 208-96-8 | Acenaphthylene | 2000. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2000. | U |

0240708

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 0-1.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4531

Sample wt/vol: 5.0 (g/mL) G  Lab File ID: >B4531

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 9.6  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 10000. | U |
| 83-32-9 | Acenaphthene | 2000. | U |
| 51-28-5 | 2,4-Dinitrophenol | 10000. | U |
| 100-02-7 | 4-Nitrophenol | 10000. | U |
| 132-64-9 | Dibenzofuran | 2000. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 2000. | U |
| 84-66-2 | Diethylphthalate | 2000. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 2000. | U |
| 86-73-7 | Fluorene | 2000. | U |
| 100-01-6 | 4-Nitroaniline | 10000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 10000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2000. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 2000. | U |
| 118-74-1 | Hexachlorobenzene | 2000. | U |
| 87-86-5 | Pentachlorophenol | 10000. | U |
| 85-01-8 | Phenanthrene | 2000. | U |
| 120-12-7 | Anthracene | 2000. | U |
| 84-74-2 | Di-n-butylphthalate | 2000. | U |
| 206-44-0 | Fluoranthene | 2000. | U |
| 129-00-0 | Pyrene | 2000. | U |
| 85-68-7 | Butylbenzylphthalate | 2000. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4000. | U |
| 56-55-3 | Benzo(a)anthracene | 2000. | U |
| 218-01-9 | Chrysene | 2000. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 2000. | U |
| 117-84-0 | Di-n-octyl phthalate | 2000. | U |
| 205-99-2 | Benzo(b)fluoranthene | 2000. | U |
| 207-08-9 | Benzo(k)fluoranthene | 2000. | U |
| 50-32-8 | Benzo(a)pyrene | 2000. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2000. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 2000. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 2000. | U |

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

FS 0-1.5

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240709

Matrix: (soil/water) SOIL  Lab Sample ID: B4531

Sample wt/vol: 5.0 (g/mL) G  Lab File ID: >B4531

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 9.6  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 17  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1120214 | Undecane (8CI9CI) | 16.16 | 330. | |
| 2. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 17.49 | 120. | |
| 3. | 17301223 | Undecane, 2,5-dimethyl- (8CI | 18.54 | 280. | |
| 4. | 13151990 | Cyclooctane, 1,4-dimethyl-, | 18.88 | 150. | |
| 5. | 61142209 | Cyclohexane, (4-methylpentyl | 19.13 | 130. | |
| 6. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.69 | 460. | |
| 7. | 17312628 | Decane, 5-propyl- (8CI) | 20.29 | 810. | |
| 8. | 514658 | Biperiden | 20.56 | 200. | |
| 9. | 62108218 | Decane, 6-ethyl-2-methyl- (9 | 22.13 | 320. | |
| 10. | 55045119 | Tridecane, 5-propyl- (9CI) | 23.18 | 160. | |
| 11. | 15441540 | 1H,3H-Thieno[3,4-c]thiophene | 24.65 | 75. | |
| 12. | 20959335 | Heptadecane, 7-methyl- (8CI9 | 26.17 | 180. | |
| 13. | 248704 | [1]Benzothieno[3,2-b][1]benz | 26.97 | 320. | |
| 14. | 55000527 | Hexadecane, 2,6,10-trimethyl | 27.06 | 180. | |
| 15. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 29.71 | 260. | |
| 16. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 30.98 | 180. | |
| 17. | 54833237 | Eicosane, 10-methyl- (9CI) | 32.20 | 98. | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
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0240800

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 2-3.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4532

Sample wt/vol: 5.0 (g/mL) G  Lab File ID: >B4532

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec.16.6  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 2000. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 2000. | U |
| 95-57-8 | 2-Chlorophenol | 2000. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2000. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2000. | U |
| 100-51-6 | Benzyl alcohol | 2000. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2000. | U |
| 95-48-7 | 2-Methylphenol | 2000. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 2000. | U |
| 106-44-5 | 4-Methylphenol | 2000. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 2000. | U |
| 67-72-1 | Hexachloroethane | 2000. | U |
| 98-95-3 | Nitrobenzene | 2000. | U |
| 78-59-1 | Isophorone | 2000. | U |
| 88-75-5 | 2-Nitrophenol | 2000. | U |
| 105-67-9 | 2,4-Dimethylphenol | 2000. | U |
| 65-85-0 | Benzoic acid | 10000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 2000. | U |
| 120-83-2 | 2,4-Dichlorophenol | 2000. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2000. | U |
| 91-20-3 | Naphthalene | 2000. | U |
| 106-47-8 | 4-Chloroaniline | 2000. | U |
| 87-68-3 | Hexachlorobutadiene | 2000. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 2000. | U |
| 91-57-6 | 2-Methylnaphthalene | 2000. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 2000. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 2000. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10000. | U |
| 91-58-7 | 2-Chloronaphthalene | 2000. | U |
| 88-74-4 | 2-Nitroaniline | 10000. | U |
| 131-11-3 | Dimethyl Phthalate | 2000. | U |
| 208-96-8 | Acenaphthylene | 2000. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 2000. | U |

0240801
EPA SAMPLE NO.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 2-3.5

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4532

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >B4532

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.16.6 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 10000. | U |
| 83-32-9 | Acenaphthene | 2000. | U |
| 51-28-5 | 2,4-Dinitrophenol | 10000. | U |
| 100-02-7 | 4-Nitrophenol | 10000. | U |
| 132-64-9 | Dibenzofuran | 2000. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 2000. | U |
| 84-66-2 | Diethylphthalate | 2000. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 2000. | U |
| 86-73-7 | Fluorene | 2000. | U |
| 100-01-6 | 4-Nitroaniline | 10000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 10000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 2000. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 2000. | U |
| 118-74-1 | Hexachlorobenzene | 2000. | U |
| 87-86-5 | Pentachlorophenol | 10000. | U |
| 85-01-8 | Phenanthrene | 2000. | U |
| 120-12-7 | Anthracene | 2000. | U |
| 84-74-2 | Di-n-butylphthalate | 2000. | U |
| 206-44-0 | Fluoranthene | 2000. | U |
| 129-00-0 | Pyrene | 2000. | U |
| 85-68-7 | Butylbenzylphthalate | 2000. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 4000. | U |
| 56-55-3 | Benzo(a)anthracene | 2000. | U |
| 218-01-9 | Chrysene | 2000. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 2000. | U |
| 117-84-0 | Di-n-octyl phthalate | 2000. | U |
| 205-99-2 | Benzo(b)fluoranthene | 2000. | U |
| 207-08-9 | Benzo(k)fluoranthene | 2000. | U |
| 50-32-8 | Benzo(a)pyrene | 2000. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 2000. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 2000. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 2000. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 2-3.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240802

Matrix: (soil/water) SOIL  Lab Sample ID: B4532

Sample wt/vol: 5.0 (g/mL) G  Lab File ID: >B4532

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 16.6  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 104767 | 1-Hexanol, 2-ethyl- (8CI9CI) | 14.53 | 140. | |
| 2. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 18.45 | 120. | |
| 3. | 4926787 | Cyclohexane, 1-ethyl-4-methy | 19.24 | 63. | |
| 4. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.60 | 210. | |
| 5. | 629505 | Tridecane (8CI9CI) | 20.11 | 240. | |
| 6. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 20.45 | 69. | |
| 7. | 696297 | Cyclohexane, (1-methylethyl) | 21.02 | 84. | |
| 8. | 26730121 | Tridecane, 4-methyl- (8CI9CI | 21.93 | 220. | |
| 9. | 74764286 | Propanedinitrile, dicyclohex | 22.87 | 58. | |
| 10. | 17312537 | Decane, 3,6-dimethyl- (8CI9C | 23.01 | 280. | |
| 11. | 55045131 | Tetradecane, 6,9-dimethyl- ( | 24.38 | 59. | |
| 12. | 14905567 | Tetradecane, 2,6,10-trimethy | 24.51 | 97. | |
| 13. | 22607165 | 1,5-Heptadiene-3,4-diol, 2,5 | 24.71 | 75. | |
| 14. | 55045119 | Tridecane, 5-propyl- (9CI) | 26.00 | 310. | |
| 15. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.86 | 390. | |
| 16. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 27.41 | 68. | |
| 17. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.21 | 220. | |
| 18. | 117828 | 1,2-Benzenedicarboxylic acid | 29.31 | 210. | |
| 19. | 629925 | Nonadecane (8CI9CI) | 29.58 | 220. | |
| 20. | 55045108 | Tridecane, 6-propyl- (9CI) | 30.89 | 140. | |
| 21. | 54833486 | Heptadecane, 2,6,10,15-tetra | 32.14 | 88. | |
| 22. | 123795 | Hexanedioic acid, dioctyl es | 35.67 | 790. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
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1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 4-5.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4533

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4533

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240804

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 4-5.5

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4533

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >B4533

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 1.0 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl_phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 4-5.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240805

Matrix: (soil/water) SOIL  Lab Sample ID: B4533

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4533

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/04/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 19  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 27723439 | Spiro[4.4]nonane-1,6-dione ( | 14.62 | 4. | |
| 2. | 629505 | Tridecane (8CI9CI) | 20.10 | 4. | |
| 3. | 544763 | Hexadecane (8CI9CI) | 22.97 | 5. | |
| 4. | 4223841 | Ethanone, 1-(2-hydroxy-5-met | 23.26 | 4. | |
| 5. | 55045084 | Dodecane, 2-methyl-6-propyl- | 25.22 | 12. | |
| 6. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.33 | 22. | |
| . | 17312822 | Undecane, 4,6-dimethyl- (8CI | 25.97 | 7. | |
| 8. | 629787 | Heptadecane (8CI9CI) | 26.73 | 21. | |
| 9. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.84 | 14. | |
| 10. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.18 | 20. | |
| 11. | 124287 | 1-Octadecanamine, N,N-dimeth | 28.85 | 4. | |
| 12. | 17851535 | 1,2-Benzenedicarboxylic acid | 29.30 | 87. | |
| 13. | 629925 | Nonadecane (8CI9CI) | 29.55 | 18. | |
| 14. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.84 | 4. | |
| 15. | 630079 | Pentatriacontane (8CI9CI) | 32.12 | 11. | |
| 16. | 123864 | Acetic acid, butyl ester (8C | 33.18 | 10. | |
| 17. | 629970 | Docosane (8CI9CI) | 33.33 | 19. | |
| 18. | 14167590 | Tetratriacontane (8CI9CI) | 34.50 | 12. | |
| 19. | 123795 | Hexanedioic acid, dioctyl es | 35.66 | 260. | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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| 29. | | | | | |
| 30. | | | | | |

0240806

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 6-7.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4534

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4534

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240807

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 6-7.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4534

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4534

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 6-7.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----0240808

Matrix: (soil/water) SOIL  Lab Sample ID: B4534

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4534

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec.1.0  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 20  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 104767 | 1-Hexanol, 2-ethyl- (8CI9CI) | 14.53 | 31. | |
| 2. | 211029 | Benzo[1,2-b:3,4-b']dithiophe | 21.28 | 3. | |
| 3. | 25013165 | Phenol, (1,1-dimethylethyl)- | 23.25 | 3. | |
| 4. | 74581401 | Propanoic acid, 2-methyl-, 1 | 25.33 | 28. | |
| 5. | 124254 | Tetradecanal (ACN)(9CI) | 25.46 | 6. | |
| 6. | 629787 | Heptadecane (8CI9CI) | 26.73 | 8. | |
| 7. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.82 | 3. | |
| 8. | 104405 | Phenol, 4-nonyl- (9CI) | 27.02 | 5. | |
| 9. | 81834 | 1H-Benz[de]isoquinoline-1,3( | 27.34 | 3. | |
| 10. | 104405 | Phenol, 4-nonyl- (9CI) | 27.72 | 3. | |
| 11. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.17 | 11. | |
| 12. | 17851535 | 1,2-Benzenedicarboxylic acid | 29.30 | 91. | |
| 13. | 629925 | Nonadecane (8CI9CI) | 29.55 | 13. | |
| 14. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 30.87 | 10. | |
| 15. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.84 | 3. | |
| 16. | 7098228 | Tetratetracontane (8CI9CI) | 32.12 | 10. | |
| 17. | 21113553 | Benzene, 1,1'-cyclohexyliden | 32.29 | 2. | |
| 18. | 629970 | Docosane (8CI9CI) | 33.33 | 17. | |
| 19. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 34.50 | 10. | |
| 20. | 123795 | Hexanedioic acid, dioctyl es | 35.68 | 380. | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240809

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 8-9.5

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4535

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >B4535

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1.2 dec. 0.0 Date Extracted:11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240810

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 8-9.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4535

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4535

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 8-9.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240811

Matrix: (soil/water) SOIL  Lab Sample ID: B4535

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4535

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 14  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 15869939 | Octane, 3,5-dimethyl- (8CI9C | 14.53 | 29. | |
| 2. | 55045084 | Dodecane, 2-methyl-6-propyl- | 25.22 | 4. | |
| 3. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.32 | 17. | |
| 4. | 629787 | Heptadecane (8CI9CI) | 26.74 | 15. | |
| 5. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.83 | 6. | |
| 6. | 42541468 | Bicyclo[3.3.1]non-2-en-9-one | 27.55 | 6. | |
| 7. | 2719644 | Benzene, (1-propylnonyl)- (9 | 27.53 | 2. | |
| 8. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.18 | 14. | |
| 9. | 17851535 | 1,2-Benzenedicarboxylic acid | 29.29 | 57. | |
| 10. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 29.56 | 8. | |
| 11. | 112958 | Eicosane (8CI9CI) | 30.87 | 5. | |
| 12. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.84 | 3. | |
| 13. | 593453 | Octadecane (8CI9CI) | 32.13 | 3. | |
| 14. | 49845252 | Piperidine, 1-(1-pentenyl)- | 36.87 | 21. | |
| 14. | | | | | |
| 15. | | | | | |
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0240812

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 10-11

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4536

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >B4536

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 1.4 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl_phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

0240813

18

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 10-11

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4536

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4536

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.4  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS-10-11

0240814

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4536

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4536

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 18  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 104767 | 1-Hexanol, 2-ethyl- (8CI9CI) | 14.53 | 57. | |
| 2. | 31502144 | 2-Nonen-1-ol, (E)- (8CI9CI) | 18.62 | 2. | |
| 3. | 5160405 | 3-Buten-2-one, 4-(4-chloroph | 23.26 | 3. | |
| 4. | 55045084 | Dodecane, 2-methyl-6-propyl- | 25.22 | 4. | |
| 5. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.32 | 31. | |
| 6. | 629787 | Heptadecane (8CI9CI) | 26.74 | 15. | |
| 7. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.83 | 5. | |
| 8. | 81834 | 1H-Benz[de]isoquinoline-1,3( | 27.35 | 5. | |
| 9. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.18 | 13. | |
| 10. | 17851555 | 1,2-Benzenedicarboxylic acid | 29.29 | 64. | |
| 11. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 29.56 | 10. | |
| 12. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.84 | 3. | |
| 13. | 54833237 | Eicosane, 10-methyl- (9CI) | 32.13 | 5. | |
| 14. | 69576836 | 7H-Cyclohepta[b]naphthalen-7 | 32.29 | 3. | |
| 15. | 629970 | Docosane (8CI9CI) | 33.33 | 7. | |
| 16. | 629970 | Docosane (8CI9CI) | 34.50 | 6. | |
| 17. | 123795 | Hexanedioic acid, dioctyl es | 35.67 | 250. | |
| 18. | 4312996 | 1-Octen-3-one (8CI9CI) | 36.83 | 62. | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240815

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 12-13.5

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4537

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >B4537

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.3.6 dec. 0.0 Date Extracted:11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240816

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 12-13.5

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B4537

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >B4537

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 3.6 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 12-13

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

0240817

Matrix: (soil/water) SOIL  Lab Sample ID: B4537

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4537

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 3.6  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 18  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1120167 | Dodecanamide (9CI) | 14.69 | 10. | |
| 2. | 61142312 | Cyclopentane, 1,3-dimethyl-2 | 18.74 | 2. | |
| 3. | 544763 | Hexadecane (8CI9CI) | 25.32 | 5. | |
| 4. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.43 | 20. | |
| 5. | 629787 | Heptadecane (8CI9CI) | 26.83 | 16. | |
| 6. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.93 | 7. | |
| 7. | 638368 | Hexadecane, 2,6,10,14-tetram | 27.04 | 2. | |
| 8. | 599644 | Phenol, 4-(1-methyl-1-phenyl | 27.45 | 7. | |
| 9. | 18217828 | Pyrazine, 2-methyl-5-(1-prop | 27.63 | 2. | |
| 10. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 28.28 | 15. | |
| 11. | 117828 | 1,2-Benzenedicarboxylic acid | 29.39 | 41. | |
| 12. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 29.66 | 9. | |
| 13. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.28 | 2. | |
| 14. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.94 | 3. | |
| 15. | 593453 | Octadecane (8CI9CI) | 32.23 | 3. | |
| 16. | 27948125 | Cyclohexaneacetic acid, buty | 33.29 | 7. | |
| 17. | 629594 | Tetradecane (8CI9CI) | 33.43 | 5. | |
| 18. | 56700846 | 2,6-Piperazinedione, monooxi | 35.77 | 10. | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240818

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 14-15.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4538

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4538

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240819

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 14-15.5

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 84538

Sample wt/vol: 10.0 (g/mL) G Lab File ID: >84538

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1.0 dec. 0.0 Date Extracted:11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl_phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 14-15

0240320

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4538

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4538

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 19  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 25013165 | Phenol, (1,1-dimethylethyl)- | 23.26 | 5. | |
| 2. | 55045108 | Tridecane, 6-propyl- (9CI) | 25.21 | 3. | |
| 3. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.34 | 37. | |
| 4. | 42256704 | 1,13-Tridecanediol, diacetat | 25.47 | 5. | |
| 5. | 629787 | Heptadecane (8CI9CI) | 26.74 | 11. | |
| 6. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.83 | 5. | |
| 7. | 74672052 | Benzene, 1-(1,3-dimethyl-3-b | 27.03 | 7. | |
| 8. | 99036 | Ethanone, 1-(3-aminophenyl)- | 27.26 | 3. | |
| 9. | 75601342 | Pyridine, 3-(2,4,6-trimethyl | 27.35 | 4. | |
| 10. | 104405 | Phenol, 4-nonyl- (9CI) | 27.73 | 4. | |
| 11. | 629787 | Heptadecane (8CI9CI) | 28.18 | 15. | |
| 12. | 17851555 | 1,2-Benzenedicarboxylic acid | 29.31 | 100. | |
| 13. | 25556212 | 2H-Pyran-2-carboxylic acid, | 29.47 | 4. | |
| 14. | 629925 | Nonadecane (8CI9CI) | 29.56 | 16. | |
| 15. | 54835486 | Heptadecane, 2,6,10,15-tetra | 32.14 | 10. | |
| 16. | 69576856 | 7H-Cyclohepta[b]naphthalen-7 | 32.30 | 3. | |
| 17. | 629970 | Docosane (8CI9CI) | 33.34 | 17. | |
| 18. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 34.49 | 11. | |
| 19. | 123795 | Hexanedioic acid, dioctyl es | 35.70 | 540. | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FS 16-17.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4539

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4539

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.4  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 990. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 990. | U |
| 95-57-8 | 2-Chlorophenol | 990. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 990. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 990. | U |
| 100-51-6 | Benzyl alcohol | 990. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 990. | U |
| 95-48-7 | 2-Methylphenol | 990. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 990. | U |
| 106-44-5 | 4-Methylphenol | 990. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 990. | U |
| 67-72-1 | Hexachloroethane | 990. | U |
| 98-95-3 | Nitrobenzene | 990. | U |
| 78-59-1 | Isophorone | 990. | U |
| 88-75-5 | 2-Nitrophenol | 990. | U |
| 105-67-9 | 2,4-Dimethylphenol | 990. | U |
| 65-85-0 | Benzoic acid | 5000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 990. | U |
| 120-83-2 | 2,4-Dichlorophenol | 990. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 990. | U |
| 91-20-3 | Naphthalene | 990. | U |
| 106-47-8 | 4-Chloroaniline | 990. | U |
| 87-68-3 | Hexachlorobutadiene | 990. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 990. | U |
| 91-57-6 | 2-Methylnaphthalene | 990. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 990. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 990. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 5000. | U |
| 91-58-7 | 2-Chloronaphthalene | 990. | U |
| 88-74-4 | 2-Nitroaniline | 5000. | U |
| 131-11-3 | Dimethyl Phthalate | 990. | U |
| 208-96-8 | Acenaphthylene | 990. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 990. | U |

0240822

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 16-17.5

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: 84539

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >84539

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.4  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 5000. | U |
| 83-32-9 | Acenaphthene | 990. | U |
| 51-28-5 | 2,4-Dinitrophenol | 5000. | U |
| 100-02-7 | 4-Nitrophenol | 5000. | U |
| 132-64-9 | Dibenzofuran | 990. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 990. | U |
| 84-66-2 | Diethylphthalate | 990. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 990. | U |
| 86-73-7 | Fluorene | 990. | U |
| 100-01-6 | 4-Nitroaniline | 5000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 5000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 990. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 990. | U |
| 118-74-1 | Hexachlorobenzene | 990. | U |
| 87-86-5 | Pentachlorophenol | 5000. | U |
| 85-01-8 | Phenanthrene | 990. | U |
| 120-12-7 | Anthracene | 990. | U |
| 84-74-2 | Di-n-butylphthalate | 990. | U |
| 206-44-0 | Fluoranthene | 990. | U |
| 129-00-0 | Pyrene | 990. | U |
| 85-68-7 | Butylbenzylphthalate | 990. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 2000. | U |
| 56-55-3 | Benzo(a)anthracene | 990. | U |
| 218-01-9 | Chrysene | 990. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 990. | U |
| 117-84-0 | Di-n-octyl_phthalate | 990. | U |
| 205-99-2 | Benzo(b)fluoranthene | 990. | U |
| 207-08-9 | Benzo(k)fluoranthene | 990. | U |
| 50-32-8 | Benzo(a)pyrene | 990. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 990. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 990. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 990. | U |

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

FS 16-17

0240823

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B4539

Sample wt/vol: 10.0 (g/mL) G  Lab File ID: >B4539

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.4  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 25013165 | Phenol, (1,1-dimethylethyl)- | 23.27 | 4. | |
| 2. | 17301303 | Undecane, 3,8-dimethyl- (8CI | 25.21 | 5. | |
| 3. | 74381401 | Propanoic acid, 2-methyl-, 1 | 25.33 | 34. | |
| 4. | 1724396 | Cyclododecanol (8CI9CI) | 25.48 | 4. | |
| 5. | 54833486 | Heptadecane, 2,6,10,15-tetra | 26.73 | 10. | |
| 6. | 55000527 | Hexadecane, 2,6,10-trimethyl | 26.82 | 4. | |
| 7. | 104405 | Phenol, 4-nonyl- (9CI) | 27.02 | 5. | |
| 8. | 81854 | 1H-Benz[de]isoquinoline-1,3( | 27.36 | 3. | |
| 9. | 104405 | Phenol, 4-nonyl- (9CI) | 27.72 | 3. | |
| 10. | 2400002 | Benzene, (1-ethyldecyl)- (9C | 27.88 | 3. | |
| 11. | 593453 | Octadecane (8CI9CI) | 28.19 | 13. | |
| 12. | 124287 | 1-Octadecanamine, N,N-dimeth | 28.87 | 5. | |
| 13. | 1785155 | 1,2-Benzenedicarboxylic acid | 29.30 | 110. | |
| 14. | 74764117 | Iron, tricarbonyl[N-(phenyl- | 29.55 | 13. | |
| 15. | 20273272 | Bicyclohexyl, 4-phenyl- (8CI | 31.85 | 4. | |
| 16. | 54833486 | Heptadecane, 2,6,10,15-tetra | 32.12 | 11. | |
| 17. | 29576836 | 7H-Cycloheptа[b]naphthalen-7 | 32.28 | 3. | |
| 18. | 629970 | Docosane (8CI9CI) | 33.33 | 16. | |
| 19. | 14167590 | Tetratriacontane (8CI9CI) | 34.49 | 10. | |
| 20. | 123795 | Hexanedioic acid, dioctyl es | 35.68 | 420. | |
| 21. | 57502484 | Azocine, 1,2,3,4,7,8-hexahyd | 36.86 | 69. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 18-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5310

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >C5310

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240825

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 18-19

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C5310

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >C5310

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 0.1 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 18-19

0240826

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5310

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5310

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.8  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/05/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 53778737 | 2-Butanol, 1-methoxy- (9CI) | 10.40 | 41. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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| 14. | | | | | |
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| 16. | | | | | |
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| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240827

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS18-19DUPE

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: E5310

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >E5310

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240823

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS18-19DUPE

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: E5310

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >E5310

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 0.1 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS18-19DUPE

0240829

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: E5310

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >E5310

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.8  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240930

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 20-21

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: E5311

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >E5311

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240932

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 20-21

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: E5311

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >E5311

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 20-21

0240832

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5311

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5311

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.6  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs Found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 113008 | Guanidine (8CI9CI) | 10.33 | 41. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240933

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 22-23

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5312

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5312

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240834

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 22-23

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5312

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5312

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 22-23

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----0240835

Matrix: (soil/water) SOIL  Lab Sample ID: B5312

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5312

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec.1.2  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 0  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3 | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 24. | | | | | |
| 25. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29 | | | | | |
| 30. | | | | | |

0240836

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 24-25

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B5316

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B5316

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 1.2 dec. 0.0 Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240837

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 24-25

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5316

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5316

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 24-25

0240828

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5316

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >C5316

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.2  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 53778737 | 2-Butanol, 1-methoxy- (9CI) | 10.53 | 40. | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240839

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 26-27

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: 85314

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >85314

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 2.8  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240640

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 26-27

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5314

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5314

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 2.8  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 26-27

0240841

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5314

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5314

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 2.8  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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0240842

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 28-29

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5315

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5315

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 4.4  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240843

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 28-29

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5315

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5315

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 4.4  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0240844

FS 28-29

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5315

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >C5315

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 4.4  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 1  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 616240 | 3-Pentanamine (?CI) | 10.33 | 40. | |
| 2. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FS 30-31

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5316

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5316

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 7.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FS 30-31

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5316

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5316

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 7.2  dec. 0.0  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | U |
| 117-84-0 | Di-n-octyl phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FS 30-31

0240847

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5516

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5516

Level: (low/med) LOW  Date Received: 10/30/89

Moisture: not dec.7.2  dec. ----  Date Extracted: 11/15/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/07/89

GPC Cleanup: (Y/N) N  pH:7.2  Dilution Factor: 1.00000

Number TICs found: 6  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 2216344 | Octane, 4-methyl- (8CI9CI) | 9.52 | 5. | |
| 2. | 2216500 | Heptane, 2,5-dimethyl- (8CI9 | 9.68 | 10. | |
| 3. | 110021 | Thiophene (8CI9CI) | 9.79 | 30. | |
| 4. | 67398394 | Hydrazine, 1,1-diethyl-2-(1- | 11.87 | 7. | |
| 5. | 5166?30 | 3-Hexen-2-one, 5-methyl- (8C | 12.95 | 43. | |
| 6. | 4337657 | Hexanedioic acid, mono(2-eth | 35.66 | 7. | |
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0240848

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FIELSCHLI03

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891453-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45316

Sample wt/vol: 5 (g/mL) G Lab File ID: >45316

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 4. | JB |
| 67-64-1 | Acetone | 4. | JB |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m & p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240849

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FIELSCHLI03

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891453-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45316

Sample wt/vol: 5 (g/mL) G Lab File ID: >45316

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 52. | |
| 2. | | | | | |
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0240850

QUANT REPORT

Operator ID: USER8
Output File: ^45316::DB
Data File: >45316::L2
Name: 891453-16 D & G
Misc: SOIL FOR HSL 5G

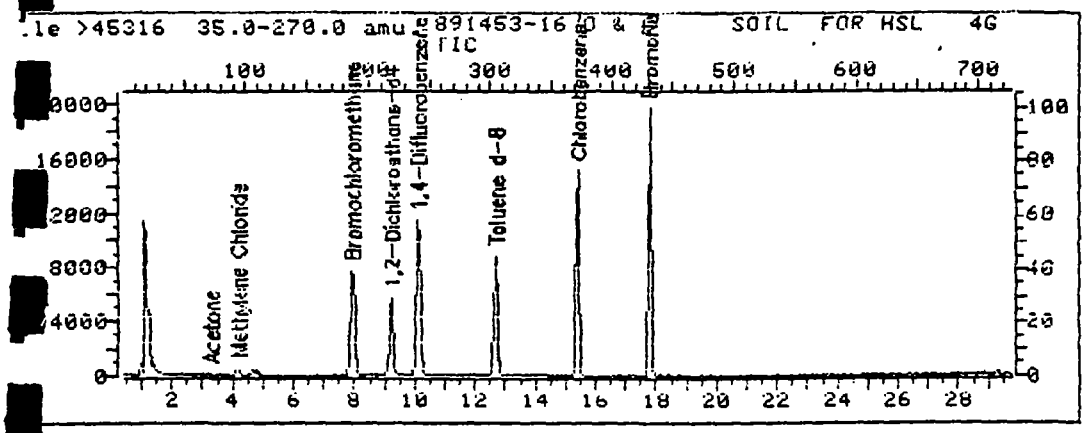
Quant Rev: 6 Quant Time: 891110 15:46
Injected at: 891110 15:16
Dilution Factor: 1.00000

ID File: IDHSL::8D
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 891004 08:19

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.92 | 187 | 11332 | 50.00 | UG/L | 97 |
| 6) | Methylene Chloride | 4.16 | 94 | 1575 | 3.79 | UG/L | 93 |
| 7) | Acetone | 3.27 | 72 | 249 | 4.12 | UG/L | 88 |
| 13) | 1,2-Dichloroethane-d4 | 9.22 | 219 | 19789 | 54.86 | UG/L | 99 |
| 15) | *1,4-Difluorobenzene | 10.11 | 241 | 46088 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.41 | 372 | 32206 | 50.00 | UG/L | 96 |
| 34) | Toluene d-8 | 12.70 | 305 | 27312 | 45.96 | UG/L | 96 |
| 40) | Bromofluorobenzene | 17.79 | 431 | 24187 | 44.72 | UG/L | 98 |

* Compound is ISTD

:



0240851

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

KN-1186-4316

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4527D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4527D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 500. | U |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 1330-20-7 | Xylene (total) | 500. | U |

1E

EPA SAMPLE NO. 0240852

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KN-086-43(5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-7SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4527D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4527D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec. 1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.17 | 140. | |
| 2. | 638040 | Cyclohexane, 1,3-dimethyl-, | 12.09 | 5. | |
| 3. | 3726474 | Cyclopentane, 1-ethyl-3-meth | 13.91 | 7. | |
| 4. | | Unknown | 16.09 | 5. | |
| 5. | 50837779 | Azetidine, 1-acetyl-2-methyl | 16.33 | 10. | |
| 6. | 1002284 | 3-Hexyn-1-ol (8CISCI) | 16.82 | 9. | |
| 7. | 123751 | Pyrrolidine (DOT)(8CISCI) | 17.14 | 15. | |
| 8. | 292648 | Cyclooctane (8CISCI) | 17.39 | 11. | |
| 9. | | Unknown | 18.44 | 9. | |
| 10. | 2847725 | Decane, 4-methyl- (8CISCI) | 18.64 | 28. | |
| 11. | | Unknown | 19.12 | 20. | |
| 12. | 106729 | 5-Heptenal, 2,6-dimethyl- (8 | 19.37 | 9. | |
| 13. | 41977326 | Cyclopropane, 1,2-dibutyl- ( | 19.61 | 14. | |
| 14. | 464153 | Bicyclo[2.2.1]heptane, 1,7,7 | 20.34 | 7. | |
| 15. | 3173533 | Cyclohexane, isocyanato- (8C | 20.50 | 20. | |
| 16. | 3173533 | Cyclohexane, isocyanato- (8C | 20.86 | 8. | |
| 17. | 54526806 | 2-Propenoic acid, 3-(1-cyclo | 21.51 | 4. | |
| 18. | 1125117 | 1,3-Cyclohexanedione, 2,5,5- | 21.79 | 7. | |
| 19. | 55255375 | 4,7-Methano-1H-inden-1-ol, o | 21.96 | 4. | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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0240853

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-4203

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-8SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45280

Sample wt/vol: 5 (g/mL) G Lab File ID: >45280

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/08/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 6. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m & p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-0B6-42(3

Lab Name:CORE LABORATORIES Contract:_____

Lab Code: _____ Case No.: 891452-8SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4528D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4528D

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/08/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 160. | |
| 2. | 19031788 | Propanal, 2-propenylhydrazon | 18.60 | 28. | |
| 3. | 1927691 | 2H-Pyran, 2-(1,1-dimethyleth | 19.04 | 17. | |
| 4. | 4926903 | Cyclohexane, 1-ethyl-1-methy | 20.50 | 61. | |
| 5. | 74630390 | 1-Undecene, 4-methyl- (9CI) | 20.70 | 36. | |
| 6. | 7116861 | 1-Hexene, 5,5-dimethyl- (8CI | 20.86 | 98. | |
| 7. | 17312753 | Nonane, 5-methyl-5-propyl- ( | 21.15 | 110. | |
| 8. | 2958761 | Naphthalene, decahydro-2-met | 21.51 | 77. | |
| 9. | 1438820 | Disiloxane, pentamethyl- (8C | 21.79 | 65. | |
| 10. | 2958761 | Naphthalene, decahydro-2-met | 22.00 | 55. | |
| 11. | 19047859 | Phosphonic acid, dioctadecyl | 22.16 | 68. | |
| 12. | 32064725 | 2-Nonen-4-one (8CI9CI) | 22.48 | 59. | |
| 13. | 2050240 | Benzene, 1,3-diethyl-5-methy | 22.81 | 66. | |
| 14. | 17301234 | Undecane, 2,6-dimethyl- (8CI | 23.05 | 140. | |
| 15. | 2049958 | Benzene, (1,1-dimethylpropyl | 23.25 | 63. | |
| 16. | 54676390 | Cyclohexane, 2-butyl-1,1,3-t | 23.70 | 40. | |
| 17. | 4489843 | Benzene, (3-methyl-2-butenyl | 24.02 | 38. | |
| 18. | 61141728 | Dodecane, 4,6-dimethyl- (9CI | 24.22 | 66. | |
| 19. | 3877198 | Naphthalene, 1,2,3,4-tetrahy | 24.79 | 21. | |
| 20. | 629592 | Pentacosane (8CI9CI) | 28.76 | 21. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
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0240855

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-42(3

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >4529D

Sample wt/vol: 5 (g/mL) G  Lab File ID: >4529D

Level: (low/med) MED  Date Received: 10/30/89

% Moisture: not dec.1  Date Analyzed: 12/04/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 500. | U |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 5411-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 1330-20-7 | Xylene (total) | 500. | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-086-42(3

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: 891452-9SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >4529D

Sample wt/vol: 5 (g/mL) G  Lab File ID: >4529D

Level: (low/med) MED  Date Received: 10/30/89

% Moisture: not dec.1  Date Analyzed: 12/04/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 120. | |
| 2. | 3073663 | Cyclohexane, 1,1,3-trimethyl | 13.91 | 22. | |
| 3. | 7667609 | Cyclohexane, 1,2,4-trimethyl | 14.27 | 20. | |
| 4. | 3868642 | Pentalene, octahydro-2-methy | 16.58 | 20. | |
| 5. | 3404771 | 1-Hexene, 3,3-dimethyl- (8CI | 17.35 | 29. | |
| 6. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.60 | 22. | |
| 7. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.17 | 24. | |
| 8. | 50746537 | Cyclopentane, 1-methyl-2-(2- | 19.33 | 21. | |
| 9. | 112425 | 1-Undecanol (9CI) | 19.58 | 23. | |
| 10. | 63366654 | 9-Borabicyclo[3.3.1]nonane, | 20.31 | 37. | |
| 11. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.55 | 65. | |
| 12. | 25155151 | Benzene, methyl(1-methylethy | 21.28 | 34. | |
| 13. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.48 | 36. | |
| 14. | 68377811 | Cyclohexene, 3-methylene-4-( | 21.76 | 58. | |
| 15. | 4706905 | Benzene, 1,3-dimethyl-5-(1-m | 22.05 | 59. | |
| 16. | 535773 | Benzene, 1-methyl-3-(1-methy | 22.33 | 18. | |
| 17. | 25550134 | Benzene, diethylmethyl- (9CI | 22.78 | 42. | |
| 18. | 527537 | Benzene, 1,2,3,5-tetramethyl | 23.22 | 64. | |
| 19. | 1196583 | Benzene, (1-ethylpropyl)- (8 | 23.46 | 18. | |
| 20. | 2050240 | Benzene, 1,3-diethyl-5-methy | 23.95 | 42. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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0240857

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-MBG-4214

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >5910D

Sample wt/vol: 5 (g/mL) G Lab File ID: >5210D

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/08/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 5411-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240858

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

KN-086-4214

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >52100

Sample wt/vol: 5 (g/mL) G Lab File ID: >52100

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/08/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 110. | |
| 2. | 53366384 | Cyclopentane, (2-methylbutyl | 17.35 | 6. | |
| 3. | 617890 | 2-Furanmethanamine (SCI) | 18.40 | 7. | |
| 4. | 19031788 | Propanal, 2-propenylhydrazon | 18.60 | 20. | |
| 5. | 16106595 | 1-Hexene, 4,5-dimethyl- (8CI | 19.05 | 12. | |
| 6. | 2456282 | Decane, 1,1'-oxybis- (SCI) | 19.57 | 10. | |
| 7. | 4418615 | 1H-Tetrazol-5-amine (SCI) | 19.82 | 5. | |
| 8. | | Unknown | 20.18 | 5. | |
| 9. | 17302237 | Nonane, 4,5-dimethyl- (8CISC | 20.50 | 23. | |
| 10. | 821954 | 1-Undecene (8CISCI) | 20.83 | 10. | |
| 11. | | Unknown | 21.11 | 6. | |
| 12. | 55255975 | 4,7-Methano-1H-inden-1-ol, o | 21.92 | 5. | |
| 13. | | Unknown | 22.16 | 5. | |
| 14. | | Unknown | 22.81 | 5. | |
| 15. | 1629603 | 1-Hexen-3-one (8CISCI) | 23.01 | 5. | |
| 16. | 15870107 | 1-Heptene, 2-methyl- (8CISCI | 24.23 | 4. | |
| 17. | | Unknown | 28.75 | 5. | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
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0240859

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-LBG-4104

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45212

Sample wt/vol: 5 (g/mL) G Lab File ID: >45212

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 17. | B |
| 67-64-1 | Acetone | 14. | |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 179-02-7 | Xylene (m & p) | 5. | U |
| 100-41-4 | Ethylbenzene | 2. | J |
| 100-42-5 | Styrene | 5. | U |
| 179-07-7 | Xylene (total) | 5. | U |

0240860

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-UBG-41(4

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 89(452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45212

Sample wt/vol: 5 (g/mL) G Lab File ID: >45212

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 120. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 16. | | | | | |
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| 18. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240861

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-41(2

Lab Name: CURE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45213

Sample wt/vol: 5 (g/mL) G Lab File ID: >45213

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.000000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 179-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240862

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-OBG-41(2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45213

Sample wt/vol: 5 (g/mL) G Lab File ID: >45213

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 66. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 17. | | | | | |
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| 30. | | | | | |

0240863

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-41( )

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45214

Sample wt/vol: 5 (g/mL) G Lab File ID: >45214

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 179-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 179-02-7 | Xylene (total) | 5. | U |

0240864

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-UBG-413

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891452-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45214

Sample wt/vol: 5 (g/mL) G Lab File ID: >45214

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.12 | 62. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

KN-OBG-3912

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14195 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-5

Sample wt/vol: 5 (g/mL) G Lab File ID: >14195

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec. 1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene Chloride | 1000. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 300. | JB |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 200. | J |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 300. | JB |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

KN-OB6-3S(2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14195 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-5

Sample wt/vol: 5 (g/mL) G Lab File ID: >14195

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec. 1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene Chloride | 1000. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 300. | JB |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 200. | J |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 300. | JB |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

0240867

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-UBG-39 2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14195 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-5

Sample wt/vol: 5 (g/mL) G Lab File ID: >14195

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.40 | 40. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.64 | 47. | |
| 3. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 19.21 | 55. | |
| 4. | 1795159 | Cyclohexane, octyl- (9CI) | 19.37 | 39. | |
| 5. | 2847725 | Decane, 4-methyl- (8CI9CI) | 19.61 | 33. | |
| 6. | 493027 | Naphthalene, decahydro-, tra | 20.30 | 40. | |
| 7. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.55 | 93. | |
| 8. | 535773 | Benzene, 1-methyl-3-(1-methyl | 21.28 | 42. | |
| 9. | 25155151 | Benzene, methyl(1-methylethyl | 21.48 | 96. | |
| 10. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.76 | 110. | |
| 11. | 2958761 | Naphthalene, decahydro-2-met | 21.96 | 83. | |
| 12. | 488233 | Benzene, 1,2,3,4-tetramethyl | 22.29 | 54. | |
| 13. | 54120626 | Benzene, ethyl-1,2,4-trimeth | 22.78 | 89. | |
| 14. | 62108229 | Decane, 2,5,9-trimethyl- (9CI | 23.02 | 56. | |
| 15. | 488233 | Benzene, 1,2,3,4-tetramethyl | 23.18 | 120. | |
| 16. | 1196583 | Benzene, (1-ethylpropyl)- (8I | 23.46 | 24. | |
| 17. | 119642 | Naphthalene, 1,2,3,4-tetrahy | 23.75 | 24. | |
| 18. | 1075225 | Indan, 5,6-dimethyl- (8CI) | 24.03 | 100. | |
| 19. | 91203 | Naphthalene (ACN)(DOT)(8CI9CI | 24.56 | 45. | |
| 20. | 2471832 | 1H-Indene, 1-ethylidene- (9CI | 26.83 | 49. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240868

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-UBG-39 2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14195 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-5

Sample wt/vol: 5 (g/mL) G Lab File ID: >14195

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.000000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.40 | 40. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.64 | 47. | |
| 3. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 19.21 | 55. | |
| 4. | 1795159 | Cyclohexane, octyl- (9CI) | 19.37 | 59. | |
| 5. | 2847725 | Decane, 4-methyl- (8CI9CI) | 19.61 | 33. | |
| 6. | 493027 | Naphthalene, decahydro-, tra | 20.30 | 40. | |
| 7. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.55 | 93. | |
| 8. | 535773 | Benzene, 1-methyl-3-(1-methyl | 21.28 | 42. | |
| 9. | 25155151 | Benzene, methyl(1-methylethyl | 21.48 | 96. | |
| 10. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.76 | 110. | |
| 11. | 2958761 | Naphthalene, decahydro-2-met | 21.96 | 83. | |
| 12. | 488233 | Benzene, 1,2,3,4-tetramethyl | 22.29 | 54. | |
| 13. | 54120626 | Benzene, ethyl-1,2,4-trimeth | 22.78 | 89. | |
| 14. | 62108229 | Decane, 2,5,9-trimethyl- (9CI | 23.02 | 56. | |
| 15. | 488233 | Benzene, 1,2,3,4-tetramethyl | 23.18 | 120. | |
| 16. | 1196583 | Benzene, (1-ethylpropyl)- (8I | 23.46 | 24. | |
| 17. | 119642 | Naphthalene, 1,2,3,4-tetrahy | 23.75 | 24. | |
| 18. | 1075225 | Indan, 5,6-dimethyl- (8CI) | 24.03 | 110. | |
| 19. | 91203 | Naphthalene (ACN)(DOT)(8CI9C | 24.56 | 45. | |
| 20. | 2471832 | 1H-Indene, 1-ethylidene- (9CI | 26.83 | 49. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240869

EPA SAMPLE NO.

KN-OBG-39 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14196 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-6

Sample wt/vol: 5 (g/mL) G Lab File ID: >4196D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 9. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m & p) | 14. | |
| 100-41-4 | Ethylbenzene | 6. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

**0240870**

EPA SAMPLE NO.

KN-OBG-39 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14196 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-6

Sample wt/vol: 5 (g/mL) G Lab File ID: >4196D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 9. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m_&_p) | 14. | |
| 100-41-4 | Ethylbenzene | 6. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240871

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-08G-39 3

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14196 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-6

Sample wt/vol: 5 (g/mL) G Lab File ID: >4196D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 130. | |
| 2. | | Unknown | 1.29 | 7. | |
| 3. | 6876239 | Cyclohexane, 1,2-dimethyl-, | 12.13 | 4. | |
| 4. | 1678917 | Cyclohexane, ethyl- (8CI,9CI) | 13.91 | 5. | |
| 5. | 108532 | 4(1H)-Pyrimidinone, 2-amino- | 17.34 | 6. | |
| 6. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.36 | 10. | |
| 7. | 16106595 | 1-Hexene, 4,5-dimethyl- (8CI | 18.60 | 12. | |
| 8. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.16 | 17. | |
| 9. | 19031799 | 2-Propanone, 2-propenylhydra | 19.61 | 10. | |
| 10. | 25155151 | Benzene, methyl(1-methylethy | 19.85 | 5. | |
| 11. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 20.05 | 4. | |
| 12. | 1120214 | Undecane (8CI,9CI) | 20.58 | 26. | |
| 13. | 934805 | Benzene, 4-ethyl-1,2-dimethy | 21.31 | 4. | |
| 14. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.47 | 5. | |
| 15. | | Unknown | 21.79 | 5. | |
| 16. | | Unknown | 22.85 | 5. | |
| 17. | 933982 | Benzene, 1-ethyl-2,3-dimethy | 23.21 | 6. | |
| 18. | | Unknown | 24.10 | 6. | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240872

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-UBG-39 3

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14196 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-6

Sample wt/vol: 5 (g/mL) G Lab File ID: >4196D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 130. | |
| 2. | | Unknown | 1.29 | 7. | |
| 3. | 6876239 | Cyclohexane, 1,2-dimethyl-, | 12.13 | 4. | |
| 4. | 1678917 | Cyclohexane, ethyl- (8CI,9CI) | 13.91 | 5. | |
| 5. | 108532 | 4(1H)-Pyrimidinone, 2-amino- | 17.34 | 6. | |
| 6. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.36 | 10. | |
| 7. | 16106595 | 1-Hexene, 4,5-dimethyl- (8CI | 18.60 | 12. | |
| 8. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.16 | 17. | |
| 9. | 19031799 | 2-Propanone, 2-propenylhydra | 19.61 | 10. | |
| 10. | 25155151 | Benzene, methyl(1-methylethyl | 19.85 | 5. | |
| 11. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 20.05 | 4. | |
| 12. | 1120214 | Undecane (8CI,9CI) | 20.58 | 26. | |
| 13. | 934805 | Benzene, 4-ethyl-1,2-dimethyl | 21.31 | 4. | |
| 14. | 535773 | Benzene, 1-methyl-3-(1-methyl | 21.47 | 5. | |
| 15. | | Unknown | 21.79 | 5. | |
| 16. | | Unknown | 22.85 | 5. | |
| 17. | 933982 | Benzene, 1-ethyl-2,3-dimethyl | 23.21 | 6. | |
| 18. | | Unknown | 24.10 | 6. | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240873

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-39 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14197 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-7

Sample wt/vol: 5 (g/mL) G Lab File ID: >4197D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m & p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240875

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-OBG-39 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14197 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-7

Sample wt/vol: 5 (g/mL) G Lab File ID: >4197D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 170. | |
| 2. | | Unknown | 4.17 | 7. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240874

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-39 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14197 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-7

Sample wt/vol: 5 (g/mL) G Lab File ID: >4197D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240876

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-OBG-39 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14197 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-7

Sample wt/vol: 5 (g/mL) G Lab File ID: >4197D

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 170. | |
| 2. | | Unknown | 4.17 | 7. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240877

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

KN-0B6-38(5

Lab Name:CORE LABORATORIES Contract:_____

Lab Code: _____ Case No.: >14193 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-3

Sample wt/vol: 5 (g/mL) G Lab File ID: >14193

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene Chloride | 600. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 100. | J |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 90. | JB |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

0240878

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-UBG-38 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: >14193 SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 891419-3

Sample wt/vol: 5 (g/mL) G Lab File ID: >14193

Level: (low/med) MED Date Received: 10/27/89

% Moisture: not dec.1 Date Analyzed: 11/07/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.14 | 73. | |
| 2. | | Unknown | 3.20 | 7. | |
| 3. | | Unknown | 4.82 | 7. | |
| 4. | 1629603 | 1-Hexen-3-one (8CI9CI) | 17.20 | 7. | |
| 5. | 13389429 | 2-Octene, (E)- (8CI9CI) | 17.40 | 5. | |
| 6. | 124185 | Decane (8CI9CI) | 18.17 | 14. | |
| 7. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.65 | 7. | |
| 8. | | Unknown | 19.14 | 5. | |
| 9. | 4923799 | Azetidine, 1-methyl- (8CI9CI | 19.67 | 8. | |
| 10. | 110781 | Propane, 1-isocyanato- (9CI) | 19.87 | 4. | |
| 11. | 1636391 | 1,1'-Bicyclopentyl (9CI) | 20.31 | 5. | |
| 12. | 1120214 | Undecane (8CI9CI) | 20.60 | 50. | |
| 13. | 19047859 | Phosphonic acid, dioctadecyl | 20.88 | 4. | |
| 14. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.81 | 12. | |
| 15. | 25155151 | Benzene, methyl(1-methylethy | 22.13 | 4. | |
| 16. | 112403 | Dodecane (8CI9CI) | 22.82 | 10. | |
| 17. | 31502144 | 2-Nonen-1-ol, (E)- (8CI9CI) | 24.12 | 10. | |
| 18. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.83 | 17. | |
| 19. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 27.28 | 7. | |
| 20. | 54823982 | Cyclohexane, 1-(cyclohexylme | 28.09 | 33. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
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0240879

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-UBG-58 5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >891419-2

Sample wt/vol: 5 (g/mL) G  Lab File ID: >14192

Level: (low/med) MED  Date Received: 10/27/89

% Moisture: not dec.1  Date Analyzed: 11/07/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 800. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 1330-02-7 | Xylene (total) | 2900. | |

0240880

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
KN-OBG-58 5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: >14192  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 891419-2

Sample wt/vol: 5 (g/mL) G  Lab File ID: >14192

Level: (low/med) MED  Date Received: 10/27/89

% Moisture: not dec.1  Date Analyzed: 11/07/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 20  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 23. | |
| 2. | 110543 | Hexane (DUT)(8CI9CI) | 4.73 | 24. | |
| 3. | 7094260 | Cyclohexane, 1,1,2-trimethyl | 17.40 | 18. | |
| 4. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 18.41 | 31. | |
| 5. | 17302282 | Nonane, 2,6-dimethyl- (8CI9C | 18.61 | 23. | |
| 6. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 19.18 | 29. | |
| 7. | 1678939 | Cyclohexane, butyl- (8CI9CI) | 19.38 | 25. | |
| 8. | 17312797 | Undecane, 4,5-dimethyl- (8CI | 19.62 | 17. | |
| 9. | 493027 | Naphthalene, decahydro-, tra | 20.31 | 13. | |
| 10. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.56 | 61. | |
| 11. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.29 | 12. | |
| 12. | 1758889 | Benzene, 2-ethyl-1,4-dimethy | 21.49 | 23. | |
| 13. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.77 | 27. | |
| 14. | 2958761 | Naphthalene, decahydro-2-met | 21.97 | 16. | |
| 15. | 112403 | Dodecane (8CI9CI) | 22.83 | 24. | |
| 16. | 2870044 | Benzene, 2-ethyl-1,3-dimethy | 23.19 | 22. | |
| 17. | 18321363 | Benzene, (1,1-dimethyl-2-pro | 24.04 | 26. | |
| 18. | 275514 | Azulene (8CI9CI) | 24.53 | 14. | |
| 19. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.80 | 18. | |
| 20. | 581408 | Naphthalene, 2,3-dimethyl- ( | 29.32 | 12. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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0240881

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
KN-OBG-38 2

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >891419-1

Sample wt/vol: 5 (g/mL) G  Lab File ID: >14191

Level: (low/med) MED  Date Received: 10/27/89

% Moisture: not dec.1  Date Analyzed: 11/07/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 2400. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 1330-02-7 | Xylene (total) | 6000. | |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

KN-OBG-38 2

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: >14191  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 891419-1

Sample wt/vol: 5 (g/mL) G  Lab File ID: >14191

Level: (low/med) MED  Date Received: 10/27/89

% Moisture: not dec.1  Date Analyzed: 11/07/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 20  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 622968 | Benzene, 1-ethyl-4-methyl- ( | 18.37 | 65. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 18.61 | 40. | |
| 3. | 611143 | Benzene, 1-ethyl-2-methyl- ( | 18.94 | 33. | |
| 4. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 19.18 | 120. | |
| 5. | 1678939 | Cyclohexane, butyl- (8CI9CI) | 19.34 | 50. | |
| 6. | 824475 | Benzene, (2-chloro-1-methyle | 19.58 | 53. | |
| 7. | 535773 | Benzene, 1-methyl-3-(1-methyl | 19.87 | 51. | |
| 8. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 20.07 | 49. | |
| 9. | 91178 | Naphthalene, decahydro- (8CI | 20.31 | 62. | |
| 10. | 1074437 | Benzene, 1-methyl-3-propyl- | 20.60 | 150. | |
| 11. | 535773 | Benzene, 1-methyl-3-(1-methyl | 20.76 | 81. | |
| 12. | 1074175 | Benzene, 1-methyl-2-propyl- | 21.04 | 42. | |
| 13. | 1758889 | Benzene, 2-ethyl-1,4-dimethyl | 21.29 | 75. | |
| 14. | 535773 | Benzene, 1-methyl-3-(1-methyl | 21.49 | 86. | |
| 15. | 768003 | Benzene, (1-methyl-1-propenyl | 21.81 | 93. | |
| 16. | 1758889 | Benzene, 2-ethyl-1,4-dimethyl | 22.18 | 96. | |
| 17. | 527537 | Benzene, 1,2,3,5-tetramethyl | 22.34 | 37. | |
| 18. | 2050240 | Benzene, 1,3-diethyl-5-methyl | 22.83 | 76. | |
| 19. | 535773 | Benzene, 1-methyl-3-(1-methyl | 23.23 | 120. | |
| 20. | 6682719 | 1H-Indene, 2,3-dihydro-4,7-d | 24.04 | 48. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
1-4 COMP

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C2415

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >C2415

Level: (low/med) LOW Date Received: 09/19/89

% Moisture: not dec.6.6 dec. 0.0 Date Extracted:09/26/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 360. | U | |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 98. | J | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 360. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 360. | U | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 61. | J | |
| 131-11-3 | Dimethyl Phthalate | 360. | U | |
| 208-96-8 | Acenaphthylene | 48. | J | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0240884

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-4 COMP

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C2415

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >C2415

Level: (low/med) LOW Date Received: 09/19/89

% Moisture: not dec.6.6 dec. 0.0 Date Extracted:09/26/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 36. | J | |
| 132-64-9 | Dibenzofuran | 360. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 47. | J | |
| 86-73-7 | Fluorene | 360. | U | |
| 100-01-6 | 4-Nitroaniline | 60. | J | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | J | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 63. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 50. | U | X |
| 85-01-8 | Phenanthrene | 44. | J | |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 49. | J | |
| 206-44-0 | Fluoranthene | 39. | J | |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 360. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 710. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 210. | J | |
| 117-84-0 | Di-n-octyl phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 360. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
1-4 COMP

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C2415

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >C2415

Level: (low/med) LOW Date Received: 09/19/89

% Moisture: not dec.6.6 dec. 0.0 Date Extracted:09/26/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/25/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 1119295 | Pentanamide, 4-methyl- (9CI) | 10.23 | 470. | |
| 2. | 505226 | 1,3-Dioxane (9CI) | 12.02 | 22. | |
| 3. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 18.56 | 14. | |
| 4. | 5911046 | Nonane, 3-methyl- (8CI9CI) | 19.71 | 32. | |
| 5. | 629505 | Tridecane (8CI9CI) | 20.22 | 30. | |
| 6. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 22.04 | 21. | |
| 7. | 638368 | Hexadecane, 2,6,10,14-tetram | 23.14 | 43. | |
| 8. | 62016379 | Octane, 2,4,6-trimethyl- (9C | 24.85 | 12. | |
| 9. | 2411361 | 1-Heptanamine, N,N-diheptyl- | 25.36 | 10. | |
| 10. | 55045119 | Tridecane, 5-propyl- (9CI) | 26.15 | 46. | |
| 11. | 55000527 | Hexadecane, 2,6,10-trimethyl | 27.02 | 120. | |
| 12. | 102863 | 1-Hexanamine, N,N-dihexyl- ( | 28.09 | 21. | |
| 13. | 1921706 | Pentadecane, 2,6,10,14-tetra | 29.63 | 18. | |
| 14. | 4292197 | Dodecane, 1-iodo- (8CI9CI) | 29.72 | 30. | |
| 15. | 112958 | Eicosane (8CI9CI) | 31.03 | 45. | |
| 16. | 54833486 | Heptadecane, 2,6,10,15-tetra | 32.29 | 44. | |
| 17. | 629970 | Docosane (8CI9CI) | 33.49 | 46. | |
| 18. | 630024 | Octacosane (8CI9CI) | 34.64 | 39. | |
| 19. | 69833756 | Estra-1,3,5,7,9-pentaen-17-o | 35.77 | 38. | |
| 20. | 1253629 | B-Nor-5,6-secocholestan-6-oi | 35.80 | 49. | |
| 21. | 7225641 | Heptadecane, 9-octyl- (8CI9C | 36.82 | 43. | |
| 22. | 544763 | Hexadecane (8CI9CI) | 37.85 | 32. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 14-16

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2118

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2118

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.0.8 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 340. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 340. | U | |
| 95-57-8 | 2-Chlorophenol | 340. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 340. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 340. | U | |
| 100-51-6 | Benzyl alcohol | 340. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 340. | U | |
| 95-48-7 | 2-Methylphenol | 340. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 340. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 340. | U | |
| 98-95-3 | Nitrobenzene | 340. | U | |
| 78-59-1 | Isophorone | 340. | U | |
| 88-75-5 | 2-Nitrophenol | 340. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 340. | U | |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 340. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 340. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 340. | U | |
| 87-68-3 | Hexachlorobutadiene | 340. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 340. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 340. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 340. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 340. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethyl Phthalate | 340. | U | |
| 208-96-8 | Acenaphthylene | 340. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 340. | U | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 14-16

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2118

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2118

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.0.8 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 340. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 1700. | U | |
| 132-64-9 | Dibenzofuran | 340. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 340. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 340. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 340. | U | |
| 118-74-1 | Hexachlorobenzene | 340. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 340. | U | |
| 120-12-7 | Anthracene | 340. | U | |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 340. | U | |
| 129-00-0 | Pyrene | 340. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U | |
| 56-55-3 | Benzo(a)anthracene | 340. | U | |
| 218-01-9 | Chrysene | 340. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octyl phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 340. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 340. | U | |
| 50-32-8 | Benzo(a)pyrene | 340. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 340. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 340. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 340. | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
COMP 14-16

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2118

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2118

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.0.8 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 108214 | Acetic acid, 1-methylethyl e | 9.89 | 17. | |
| 2. | 104756 | 1-Hexanamine, 2-ethyl- (9CI) | 10.23 | 540. | |
| 3. | 505226 | 1,3-Dioxane (9CI) | 11.97 | 19. | |
| 4. | 4337659 | Hexanedioic acid, mono(2-eth | 35.71 | 18. | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
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| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
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| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 2-4

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 2119B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >2119B

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 10. | U | X |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 10. | U | X |
| 78-59-1 | Isophorone | 350. | U | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 35. | J | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethyl Phthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 2-4

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 21198

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >21198

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 350. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 350. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10. | U | X |
| 86-73-7 | Fluorene | 350. | U | |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 350. | U | |
| 120-12-7 | Anthracene | 350. | U | |
| 84-74-2 | Di-n-butylphthalate | 36. | J | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 350. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 130. | J | |
| 117-84-0 | Di-n-octyl phthalate | 66. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10. | U | X |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

0240891

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

COMP 2-4

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 2119B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >2119B

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| No hits for scan | 128. of File >2119B | | | | |
| 2. | 505226 | 1,3-Dioxane (9CI) | 11.98 | 22. | |
| 3. | 124185 | Decane (8CI9CI) | 13.91 | 9. | |
| 4. | 2847725 | Decane, 4-methyl- (8CI9CI) | 14.45 | 16. | |
| 5. | 7058017 | Cyclohexane, (1-methylpropyl | 14.73 | 9. | |
| 6. | 1072055 | Heptane, 2,6-dimethyl- (8CI9 | 14.83 | 8. | |
| 7. | 53366384 | Cyclopentane, (2-methylbutyl | 15.05 | 8. | |
| 8. | 1120214 | Undecane (8CI9CI) | 16.17 | 17. | |
| 9. | 17312753 | Nonane, 5-methyl-5-propyl- ( | 16.75 | 6. | |
| 10. | 17301234 | Undecane, 2,6-dimethyl- (8CI | 18.52 | 7. | |
| 11. | 5911046 | Nonane, 3-methyl- (8CI9CI) | 19.66 | 13. | |
| 12. | 629505 | Tridecane (8CI9CI) | 20.17 | 7. | |
| 13. | 62238113 | Decane, 2,3,5-trimethyl- (9C | 21.98 | 15. | |
| 14. | 17312811 | Undecane, 3,5-dimethyl- (8CI | 23.07 | 22. | |
| 15. | 629787 | Heptadecane (8CI9CI) | 24.78 | 6. | |
| 16. | 55045084 | Dodecane, 2-methyl-6-propyl- | 25.30 | 9. | |
| 17. | 62108263 | Decane, 2,6,8-trimethyl- (9C | 26.07 | 21. | |
| 19. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.94 | 56. | |
| 20. | 54833486 | Heptadecane, 2,6,10,15-tetra | 29.59 | 13. | |
| 21. | 6418435 | Hexadecane, 3-methyl- (8CI9C | 29.67 | 13. | |
| 22. | 110587 | 1-Pentanamine (9CI) | 35.77 | 20. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 2-4 DU

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 2119D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >2119D

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 10. | U | X |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 10. | U | X |
| 78-59-1 | Isophorone | 10. | U | X |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 64. | J | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethyl Phthalate | 350. | U | |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 2-4 DU

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 2119D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >2119D

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 350. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 350. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 46. | J | |
| 86-73-7 | Fluorene | 350. | U | |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 350. | U | |
| 120-12-7 | Anthracene | 350. | U | |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 52. | J | |
| 85-68-7 | Butylbenzylphthalate | 350. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 150. | J | |
| 117-84-0 | Di-n-octyl_phthalate | 91. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10. | U | X |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

0240894

EPA SAMPLE NO.

COMP 2-4 DU

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 2119D

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >2119D

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| No hits for scan | 144. of File >2119D | | | | |
| 2. | 505226 | 1,3-Dioxane (9CI) | 11.99 | 21. | |
| 3. | 124185 | Decane (8CI9CI) | 13.91 | 12. | |
| 4. | 2847725 | Decane, 4-methyl- (8CI9CI) | 14.46 | 20. | |
| 5. | 2432793 | Hexanoic acid, thio-, S-buty | 14.74 | 11. | |
| 6. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 14.83 | 10. | |
| 7. | 62238339 | Cyclohexane, 1-ethyl-2-propy | 15.06 | 10. | |
| 8. | 1120214 | Undecane (8CI9CI) | 16.17 | 21. | |
| 9. | 17312753 | Nonane, 5-methyl-5-propyl- ( | 16.75 | 9. | |
| 10. | 17301234 | Undecane, 2,6-dimethyl- (8CI | 18.53 | 12. | |
| 11. | 17312764 | Undecane, 6,6-dimethyl- (8CI | 19.68 | 21. | |
| 12. | 629505 | Tridecane (8CI9CI) | 20.18 | 10. | |
| 13. | 7045718 | Undecane, 2-methyl- (8CI9CI) | 20.52 | 8. | |
| 14. | 629594 | Tetradecane (8CI9CI) | 22.00 | 18. | |
| 15. | 17312811 | Undecane, 3,5-dimethyl- (8CI | 23.09 | 27. | |
| 16. | 55045084 | Dodecane, 2-methyl-6-propyl- | 25.32 | 11. | |
| 17. | 54932784 | Phenol, 4-(2,2,3,3-tetrameth | 25.66 | 9. | |
| 18. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.10 | 34. | |
| 19. | 50486 | Amitriptyline | 26.86 | 9. | |
| 20. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.96 | 54. | |
| 21. | 54833486 | Heptadecane, 2,6,10,15-tetra | 29.61 | 13. | |
| 22. | 6418435 | Hexadecane, 3-methyl- (8CI9C | 32.27 | 10. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
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| 30. | | | | | |
| | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 5-8

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2110

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2110

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 350. | U | |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 210. | J | |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 56. | J | |
| 78-59-1 | Isophorone | 350. | U | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1800. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10. | U | X |
| 91-20-3 | Naphthalene | 650. | | |
| 106-47-8 | 4-Chloroaniline | 96. | J | |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 1200. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 10. | U | X |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethyl Phthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 10. | U | X |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 5-8

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2110

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2110

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 36. | J | |
| 100-02-7 | 4-Nitrophenol | 45. | J | |
| 132-64-9 | Dibenzofuran | 53. | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10. | U | X |
| 86-73-7 | Fluorene | 100. | J | |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 38. | J | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 180. | J | |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 36. | J | |
| 85-68-7 | Butylbenzylphthalate | 45. | J | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 710. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octyl phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

0240897

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMP S-8

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2110

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2110

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 546496 | 1,5-Heptadien-4-one, 3,3,6-t | 10.23 | 470. | |
| 2. | 124185 | Decane (8CI9CI) | 13.92 | 70. | |
| 3. | 2847725 | Decane, 4-methyl- (8CI9CI) | 14.45 | 48. | |
| 4. | 544763 | Hexadecane (8CI9CI) | 16.23 | 220. | |
| 5. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 16.57 | 40. | |
| 6. | 527537 | Benzene, 1,2,3,5-tetramethyl | 16.78 | 72. | |
| 7. | 52896874 | Heptane, 4-(1-methylethyl)- | 17.35 | 60. | |
| 8. | 527537 | Benzene, 1,2,3,5-tetramethyl | 17.46 | 64. | |
| 9. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 17.55 | 62. | |
| 10. | 30571712 | Decane, 3-bromo- (8CI9CI) | 17.69 | 61. | |
| 11. | 17312822 | Undecane, 4,6-dimethyl- (8CI | 18.31 | 96. | |
| 12. | 17301234 | Undecane, 2,6-dimethyl- (8CI | 18.57 | 98. | |
| 13. | 4292755 | Cyclohexane, hexyl- (9CI) | 19.16 | 46. | |
| 14. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.70 | 90. | |
| 15. | 629505 | Tridecane (8CI9CI) | 20.22 | 88. | |
| 16. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.40 | 53. | |
| 17. | 31081182 | Nonane, 3-methyl-5-propyl- ( | 22.01 | 55. | |
| 18. | 575371 | Naphthalene, 1,7-dimethyl- ( | 22.42 | 48. | |
| 19. | 571584 | Naphthalene, 1,4-dimethyl- ( | 22.70 | 51. | |
| 20. | 17312628 | Decane, 5-propyl- (8CI) | 23.08 | 79. | |
| 21. | 55045119 | Tridecane, 5-propyl- (9CI) | 26.06 | 42. | |
| 22. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.93 | 70. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |
| | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 19-20

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2121

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2121

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.8.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 360. | U | |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 10. | U | X |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 360. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10. | U | X |
| 91-20-3 | Naphthalene | 360. | U | |
| 106-47-8 | 4-Chloroaniline | 89. | J | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 360. | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethyl Phthalate | 360. | U | |
| 208-96-8 | Acenaphthylene | 360. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 19-20

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2121

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2121

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.8.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10. | U | X |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 51. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 360. | U | |
| 129-00-0 | Pyrene | 360. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 360. | U | |
| 218-01-9 | Chrysene | 360. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octyl_phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 360. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMP 19-20

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2121

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2121

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.8.6 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/23/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| No hits for scan 126. of File >B2121 | | | | | |
| 2. | 630068 | Hexatriacontane (8CI9CI) | 16.17 | 57. | |
| 3. | 17312753 | Nonane, 5-methyl-5-propyl- ( | 16.76 | 25. | |
| 4. | 105419 | 2-Hexanamine, 4-methyl- (9CI | 18.30 | 29. | |
| 5. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 18.57 | 70. | |
| 6. | 17312753 | Nonane, 5-methyl-5-propyl- ( | 18.84 | 26. | |
| 7. | 61227870 | 2,5-Octadiyne, 4,4-diethyl- | 18.91 | 32. | |
| 8. | 54105667 | Cyclohexane, undecyl- (9CI) | 19.15 | 27. | |
| 10. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.71 | 90. | |
| 11. | 33717930 | 1-Heptene, 2-isohexyl-6-meth | 20.01 | 31. | |
| 13. | 7045718 | Undecane, 2-methyl- (8CI9CI) | 20.56 | 40. | |
| 14. | 696297 | Cyclohexane, (1-methylethyl) | 21.13 | 42. | |
| 15. | 565753 | Pentane, 2,3,4-trimethyl- (8 | 21.28 | 37. | |
| 16. | 26730121 | Tridecane, 4-methyl- (8CI9CI | 22.06 | 250. | |
| 17. | 56292661 | Tridecane, 2,5-dimethyl- (9C | 22.11 | 32. | |
| 18. | 21564910 | Naphthalene, 1,2,3,4-tetrahy | 22.18 | 49. | |
| 19. | 544763 | Hexadecane (8CI9CI) | 23.10 | 110. | |
| 20. | 544763 | Hexadecane (8CI9CI) | 25.32 | 90. | |
| 21. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.06 | 36. | |
| 22. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.92 | 24. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240901

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 22-25

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2126

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2126

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 350. | U | |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 350. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 350. | U | |
| 78-59-1 | Isophorone | 350. | U | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1800. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 350. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 350. | U | |
| 106-47-8 | 4-Chloroaniline | 350. | U | |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 350. | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethyl Phthalate | 350. | U | |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

0240902

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 22-25

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B2126

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B2126

Level: (low/med) LOW Date Received: 09/14/89

% Moisture: not dec.5.2 dec. 0.0 Date Extracted:09/21/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 10/24/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 1800. | U | |
| 132-64-9 | Dibenzofuran | 350. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 350. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 350. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 350. | U | |
| 120-12-7 | Anthracene | 350. | U | |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 350. | U | |
| 129-00-0 | Pyrene | 350. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 350. | U | |
| 117-84-0 | Di-n-octyl_phthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 350. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-3 COMP

0240903

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: C4199

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 7.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 220. | U | |
| 67-72-1 | Hexachloroethane | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 660. | J | |
| 88-75-5 | 2-Nitrophenol | 660. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 660. | | |
| 106-47-8 | 4-Chloroaniline | 660. | J | |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 660. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | X |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | J | |

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

~~0240904~~

1-3 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C4199

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 7.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 220. | U | |
| 67-72-1 | Hexachloroethane | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 660. | J | |
| 88-75-5 | 2-Nitrophenol | 660. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 660. | | |
| 106-47-8 | 4-Chloroaniline | 660. | J | |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 660. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | X |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | J | |

IC 0240905

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1-3 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C4199

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 7.6  dec. 0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | J | |
| 100-02-7 | 4-Nitrophenol | 3400. | J | |
| 132-64-9 | Dibenzofuran | 660. | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | J | |
| 100-01-6 | 4-Nitroaniline | 3400. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | J | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | J | |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | |
| 206-44-0 | Fluoranthene | 660. | U | X |
| 129-00-0 | Pyrene | 660. | J | |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | |
| 218-01-9 | Chrysene | 660. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | B | |
| 117-84-0 | Di-n-octyl phthalate | 660. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0240906

EPA SAMPLE NO.

1-3 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C4199

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 7.6  dec. 0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | J | |
| 100-02-7 | 4-Nitrophenol | 3400. | J | |
| 132-64-9 | Dibenzofuran | 660. | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | J | |
| 100-01-6 | 4-Nitroaniline | 3400. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | J | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | J | |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | |
| 206-44-0 | Fluoranthene | 660. | U | X |
| 129-00-0 | Pyrene | 660. | J | |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | |
| 218-01-9 | Chrysene | 660. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | B | |
| 117-84-0 | Di-n-octyl_phthalate | 660. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240907 EPA SAMPLE NO.

1-3 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C4199

Level: (low/med) LOW  Date Received: 10/27/89

Moisture: not dec.7.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 20  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 124185 | Decane (8CI9CI) | 13.88 | 63. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 14.40 | 43. | |
| 3. | 1678959 | Cyclohexane, butyl- (8CI9CI) | 14.67 | 25. | |
| 4. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 14.77 | 28. | |
| 5. | 1074437 | Benzene, 1-methyl-3-propyl- | 15.13 | 21. | |
| 6. | .565753 | Pentane, 2,3.4-trimethyl- (8 | 15.26 | 43. | |
| . | 13151343 | Decane, 3-methyl- (8CI9CI) | 15.49 | 32. | |
| 8. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 16.52 | 29. | |
| 9. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.72 | 40. | |
| 10. | 2955637 | 3,8-Decanedione (8CI9CI) | 17.30 | 41. | |
| 11. | 527537 | Benzene, 1,2,3,5-tetramethyl | 17.40 | 33. | |
| 12. | 7045718 | Undecane, 2-methyl- (8CI9CI) | 17.49 | 40. | |
| 13. | 55045095 | Tridecane, 7-propyl- (9CI) | 17.62 | 35. | |
| 14. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 18.50 | 56. | |
| 15. | 1795159 | Cyclohexane, octyl- (9CI) | 19.08 | 21. | |
| 16. | 17312764 | Undecane, 6,6-dimethyl- (8CI | 19.64 | 43. | |
| 17. | 629505 | Tridecane (8CI9CI) | 20.15 | 35. | |
| 18. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.33 | 33. | |
| 19. | 544763 | Hexadecane (8CI9CI) | 23.00 | 30. | |
| 20. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.85 | 25. | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30 | | | | | |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240908

EPA SAMPLE NO.

1-3 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4199

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C4199

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 7.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 124185 | Decane (8CI9CI) | 13.88 | 63. | |
| 2. | 2847725 | Decane, 4-methyl- (8CI9CI) | 14.40 | 45. | |
| 3. | 1678959 | Cyclohexane, butyl- (8CI9CI) | 14.67 | 25. | |
| 4. | 17302328 | Nonane, 3,7-dimethyl- (8CI9C | 14.77 | 28. | |
| 5. | 1074457 | Benzene, 1-methyl-3-propyl- | 15.13 | 21. | |
| 6. | 565753 | Pentane, 2,3,4-trimethyl- (8 | 15.26 | 43. | |
| . | 13151343 | Decane, 3-methyl- (8CI9CI) | 15.49 | 32. | |
| 8. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 16.52 | 29. | |
| 9. | 488233 | Benzene, 1,2,3,4-tetramethyl | 16.72 | 40. | |
| 10. | 2955637 | 3,8-Decanedione (8CI9CI) | 17.30 | 41. | |
| 11. | 527537 | Benzene, 1,2,3,5-tetramethyl | 17.40 | 33. | |
| 12. | 7045718 | Undecane, 2-methyl- (8CI9CI) | 17.49 | 40. | |
| 13. | 55045095 | Tridecane, 7-propyl- (9CI) | 17.62 | 35. | |
| 14. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 18.50 | 56. | |
| 15. | 1795159 | Cyclohexane, octyl- (9CI) | 19.08 | 21. | |
| 16. | 17312764 | Undecane, 6,6-dimethyl- (8CI | 19.64 | 43. | |
| 17. | 629505 | Tridecane (8CI9CI) | 20.15 | 35. | |
| 18. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.33 | 33. | |
| 19. | 544763 | Hexadecane (8CI9CI) | 23.00 | 30. | |
| 20. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.85 | 25. | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240909

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5-7 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C1910

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 8.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | X |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 220. | JB | |
| 67-72-1 | Hexachloroethane | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 660. | X | |
| 88-75-5 | 2-Nitrophenol | 660. | U | X |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 660. | J | |
| 106-47-8 | 4-Chloroaniline | 660. | L | X |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 660. | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | X |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | U | X |

0240910

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5-7 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C1910

Level: (low/med) LOW  Date Received: 10/27/89

% Moisture: not dec. 8.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | X |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 220. | JB | |
| 67-72-1 | Hexachloroethane | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 660. | X | |
| 88-75-5 | 2-Nitrophenol | 660. | U | X |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 660. | J | |
| 106-47-8 | 4-Chloroaniline | 660. | L | X |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 660. | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | X |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | U | X |

1C **0240911** EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

| 5-7 COMP |

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G Lab File ID: >C1910

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec. 8.6 dec. 0 Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | U | |
| 100-02-7 | 4-Nitrophenol | 3400. | U | X |
| 132-64-9 | Dibenzofuran | 660. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | U | X |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | J | |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | X |
| 206-44-0 | Fluoranthene | 660. | U | X |
| 129-00-0 | Pyrene | 660. | U | X |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | |
| 218-01-9 | Chrysene | 660. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | JB | |
| 117-84-0 | Di-n-octyl phthalate | 660. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1C **0240912** EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

| 5-7 COMP |

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G Lab File ID: >C1910

Level: (low/med) LOW Date Received: 10/27/89

% Moisture: not dec. 8.6 dec. 0 Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | U | |
| 100-02-7 | 4-Nitrophenol | 3400. | U | X |
| 132-64-9 | Dibenzofuran | 660. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | U | X |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | J | |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | X |
| 206-44-0 | Fluoranthene | 660. | U | X |
| 129-00-0 | Pyrene | 660. | U | X |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | |
| 218-01-9 | Chrysene | 660. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | JB | |
| 117-84-0 | Di-n-octyl phthalate | 660. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

**0240913** EPA SAMPLE NO.

5-7 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C1910

Level: (low/med) LOW  Date Received: 10/27/89

Moisture: not dec. 8.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 20  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240914

EPA SAMPLE NO.

5-7 COMP

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C1910

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C1910

Level: (low/med) LOW  Date Received: 10/27/89

Moisture: not dec. 8.6  dec. 0.0  Date Extracted: 11/07/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/08/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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0240915

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1-3

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5216

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C5216

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 8.2  dec. 0.0  Date Extracted: 11/08/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 890. | | |
| 67-72-1 | Hexachloroethane | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 660. | U | X |
| 88-75-5 | 2-Nitrophenol | 660. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 660. | J | |
| 106-47-8 | 4-Chloroaniline | 660. | J | |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 660. | J | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | |
| 88-74-4 | 2-Nitroaniline | 3400. | U | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | U | X |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0240916 EPA SAMPLE NO.

COMP 1-3

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C5216

Sample wt/vol: 15.0 (g/mL) G Lab File ID: >C5216

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 8.2 dec. 0 Date Extracted: 11/08/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | U | |
| 100-02-7 | 4-Nitrophenol | 3400. | U | X |
| 132-64-9 | Dibenzofuran | 660. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | U | |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | U | X |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | X |
| 206-44-0 | Fluoranthene | 660. | U | |
| 129-00-0 | Pyrene | 660. | U | |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | |
| 218-01-9 | Chrysene | 660. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | J | |
| 117-84-0 | Di-n-octyl phthalate | 660. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0240917
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMP 1-3

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5216

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C5216

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 8.2  dec. 0.0  Date Extracted: 11/08/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 21  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240918

COMP 5-7

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5217

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C5217

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 7.6  dec. 0.0  Date Extracted: 11/06/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 660. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660 | U | |
| 95-57-8 | 2-Chlorophenol | 660. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U | |
| 100-51-6 | Benzyl alcohol | 660. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U | |
| 95-48-7 | 2-Methylphenol | 660. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U | |
| 106-44-5 | 4-Methylphenol | 660. | J | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 660. | U | |
| 67-72-1 | Hexachloroethene | 660. | U | |
| 98-95-3 | Nitrobenzene | 660. | U | |
| 78-59-1 | Isophorone | 1705. | | |
| 88-75-5 | 2-Nitrophenol | 660. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 660. | J | |
| 65-85-0 | Benzoic acid | 3400. | U | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U | |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U | |
| 91-20-3 | Naphthalene | 6018. | | |
| 106-47-8 | 4-Chloroaniline | 660. | J | |
| 87-68-3 | Hexachlorobutadiene | 660. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U | |
| 91-57-6 | 2-Methylnaphthalene | 5732. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 3400. | U | |
| 91-58-7 | 2-Chloronaphthalene | 660. | U | |
| 88-74-4 | 2-Nitroaniline | 3400. | J | |
| 131-11-3 | Dimethyl Phthalate | 660. | U | |
| 208-96-8 | Acenaphthylene | 660. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | J | |

LC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240919

COMP 5-7

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5217

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C5217

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 7.6  dec. 0  Date Extracted: 11/08/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3400. | U | |
| 83-32-9 | Acenaphthene | 660. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 3400. | J | |
| 100-02-7 | 4-Nitrophenol | 3400. | J | |
| 132-64-9 | Dibenzofuran | 660. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U | |
| 84-66-2 | Diethylphthalate | 660. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U | |
| 86-73-7 | Fluorene | 660. | J | |
| 100-01-6 | 4-Nitroaniline | 3400. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3400. | J | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U | |
| 118-74-1 | Hexachlorobenzene | 660. | U | |
| 87-86-5 | Pentachlorophenol | 3400. | U | |
| 85-01-8 | Phenanthrene | 660. | J | |
| 120-12-7 | Anthracene | 660. | U | X |
| 84-74-2 | Di-n-butylphthalate | 660. | U | X |
| 206-44-0 | Fluoranthene | 660. | U | X |
| 129-00-0 | Pyrene | 660. | U | X |
| 85-68-7 | Butylbenzylphthalate | 660. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1340. | U | |
| 56-55-3 | Benzo(a)anthracene | 660. | U | X |
| 218-01-9 | Chrysene | 660 | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | J | |
| 117-84-0 | Di-n-octyl_phthalate | 660. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U | |
| 50-32-8 | Benzo(a)pyrene | 660. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U | |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U | |

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS 0240920

COMP 5-7

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5217

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >C5217

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 7.6  dec. 0.0  Date Extracted: 11/08/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 113008 | Guanidine (8CI9CI) | 10.31 | 630. | |
| 2. | 696297 | Cyclohexane, (1-methylethyl) | 12.20 | 34. | |
| 3. | 2051301 | Octane, 2,6-dimethyl- (8CI9C | 12.27 | 57. | |
| 4. | 5166530 | 3-Hexen-2-one, 5-methyl- (8C | 12.79 | 56. | |
| 5. | 626675 | Piperidine, 1-methyl- (8CI9C | 13.05 | 60. | |
| 6. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 13.89 | 150. | |
| 7. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 14.59 | 390. | |
| 8. | 15491797 | Cyclohexanol, 2-(1,1-dimethy | 14.85 | 99. | |
| 9. | 38541752 | Pentanamide, 2-(dimethylamin | 15.19 | 42. | |
| 10. | 13151543 | Decane, 3-methyl- (8CI9CI) | 15.66 | 140. | |
| 11. | 535773 | Benzene, 1-methyl-3-(1-methy | 15.91 | 140. | |
| 12. | 2870044 | Benzene, 2-ethyl-1,3-dimethy | 16.04 | 120. | |
| 13. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 16.65 | 70. | |
| 14. | 527537 | Benzene, 1,2,3,5-tetramethyl | 16.85 | 88. | |
| 15. | 34413526 | Pyrazine, isopropenyl- (8CI) | 17.28 | 25. | |
| 16. | 1632708 | Undecane, 5-methyl- (8CI9CI) | 17.42 | 64. | |
| 17. | 488233 | Benzene, 1,2,3,4-tetramethyl | 17.50 | 100. | |
| 18. | 1002171 | Decane, 2,9-dimethyl- (8CI9C | 17.59 | 60. | |
| 19. | 17312971 | Dodecane, 5-methyl- (8CI9CI) | 17.71 | 88. | |
| 20. | 17301223 | Undecane, 2,5-dimethyl- (8CI | 18.56 | 85. | |
| 21. | 4292755 | Cyclohexane, hexyl- (9CI) | 19.14 | 33. | |
| 22. | 62016546 | Octane, 2,3,7-trimethyl- (9C | 19.68 | 81. | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240921

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 8-10

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: 85218

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >85218

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 6.0  dec. 0.0  Date Extracted: 11/09/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 343. | JB |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240922

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 8-10

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5218

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5218

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 6.0  dec. 0.0  Date Extracted: 11/09/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | JB |
| 117-84-0 | Di-n-octyl phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS 0240923

COMP 8-10

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B5218

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B5218

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 6.0 dec. 0.0 Date Extracted: 11/09/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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| 12. | | | | | |
| 13. | | | | | |
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| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0240924

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 12-14

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C5219

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >C5219

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 4.8 dec. 0.0 Date Extracted:11/09/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 343. | J |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240925

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 12-14

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C5219

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >C5219

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 4.8  dec. 0.0  Date Extracted: 11/09/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 660 | U |
| 56-55-3 | Benzo(a)anthracene | 330. | U |
| 218-01-9 | Chrysene | 330. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330. | JB |
| 117-84-0 | Di-n-octyl_phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

0240926

LATHROP FEED AND EQUIPMENT

0240927

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

XXXX SAMPLE NO.

LFEB (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-40

Level (low/med): LOW Date Received: 5/26/89

% Solids: 90.57%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 8.7 | | | F |
| 7440-39-3 | Barium | 150 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 36 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 17.6 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.3 | B | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

7/88

0240928

MARKLAND TRUCKING

U.S. EPA - CLP

0240929

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MTB (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-14

Level (low/med): LOW Date Received: 5/26/89

% Solids: 91.42%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 7.4 | | | F |
| 7440-39-3 | Barium | 210 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | B | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 19 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 11.7 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0240930

MOBIL PIPELINE

0240931

EPA SAMPLE NO.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

COMP 5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-45

Sample wt/vol: 30 (g/mL) G Lab File ID: >B3045

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec._____ dec. 13.98 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.30 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0240932
EPA SAMPLE NO.

COMP 5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: 890030A45

Sample wt/vol: 30 (g/mL) G  Lab File ID: >83045

Level: (low/med) LOW  Date Received: 01/09/89

% Moisture: not dec. _____ dec. 13.98  Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N  pH: 8.30  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 1700. | U | |
| 132-64-9 | Dibenzofuran | 330. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U | |
| 118-74-1 | Hexachlorobenzene | 330. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 510. | | |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 330. | U | |
| 206-44-0 | Fluoranthene | 770. | | |
| 129-00-0 | Pyrene | 420. | | |
| 85-68-7 | Butylbenzylphtnalate | 330. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U | |
| 56-55-3 | Benzo(a)anthracene | 220. | J | |
| 218-01-9 | Chrysene | 260. | J | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 77. | JB | |
| 117-84-0 | Di-n-octyl Phthalate | 330. | U | |
| 205-99-2 | Benzo(b)fluoranthene | 160. | J | |
| 207-08-9 | Benzo(k)fluoranthene | 10. | U | X |
| 50-32-8 | Benzo(a)pyrene | 10. | U | X |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 69. | J | |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 100. | J | |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0240933 | Comp 5

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-45

Sample wt/vol: 30 (g/mL) g Lab File ID: B3045

Level: (low/med) Low Date Received: 1/9/89

% Moisture: not dec. _____ dec. 13.98 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.30 Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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U.S. EPA - CLP 0240934

1

# INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890030-45

Level (low/med): LOW Date Received: 1/09/89

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 9.1 | | F | |
| 7440-39-3 | Barium | 137 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 16.3 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 28.3 | | F | S |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.04 | U | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.2 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: _____ Clarity After: _____ Artifacts: YES

Comments:

_____

_____

_____

_____

NATCO

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

0240936 EPA SAMPLE NO

SOIL-B-1

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890026-1

Sample wt/vol: 5 (g/mL) G Lab File ID: >0261A

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. ____ Date Analyzed: 1/16/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 91. | |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240937

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SOIL-B-1

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-1

Sample wt/vol: 5 (g/mL) G Lab File ID: 0261A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 8.0 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
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0240938

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1 2-3.5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 8900262

Sample wt/vol: 5 (g/mL) G  Lab File ID: >0262A

Level: (low/med) LOW  Date Received: 01/06/89

% Moisture: not dec. ____  Date Analyzed: 1/16/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 55. | E |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >0262A

0240939

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
B-1 4-5.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890026-3

Sample wt/vol: 5 (g/mL) G Lab File ID: >0263A

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. 11.0 Date Analyzed: 1/16/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | .9 | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240940 EPA SAMPLE NO.

B-1 4-5.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-3

Sample wt/vol: 5 (g/mL) G Lab File ID: 0263A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 11 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
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0240941

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1 6-7.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890026-4

Sample wt/vol: 5 (g/mL) G Lab File ID: >0264A

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. 6.0 Date Analyzed: 1/16/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240942 EPA SAMPLE NO.

B-1 6-7.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-4

Sample wt/vol: 5 (g/mL) G Lab File ID: 0264A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 6.0 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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| 30. | | | | | |

0240943

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
B-1 8-9.5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 890026-5

Sample wt/vol: 5 (g/mL) G  Lab File ID: >0265A

Level: (low/med) LOW  Date Received: 01/06/89

% Moisture: not dec. 16.0  Date Analyzed: 1/16/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 17. | E |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0240944 EPA SAMPLE NO.

B-1 8-9.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-5

Sample wt/vol: 5 (g/mL) G Lab File ID: 0265A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 16.0 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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0240945

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
B-1 10-11.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890026-6

Sample wt/vol: 5 (g/mL) G Lab File ID: >0266A

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. 10.0 Date Analyzed: 1/16/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 1. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

0240946

EPA SAMPLE NO.

B-1 10-11.5

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-6

Sample wt/vol: 5 (g/mL) G Lab File ID: 0266A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 10.0 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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0240947

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-1 12-13.5

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 890026-7

Sample wt/vol: 5 (g/mL) G  Lab File ID: >0267A

Level: (low/med) LOW  Date Received: 01/06/89

% Moisture: not dec. 18.0  Date Analyzed: 1/16/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | IU |
| 74-83-9 | Bromomethane | 10. | IU |
| 75-01-4 | Vinyl Chloride | 10. | IU |
| 75-00-3 | Chloroethane | 10. | IU |
| 75-09-2 | Methylene_Chloride | 2. | IJB |
| 67-64-1 | Acetone | 10. | IU |
| 75-15-0 | Carbon Disulfide | 5. | IU |
| 75-35-4 | 1,1-Dichloroethene | 5. | IU |
| 75-34-3 | 1,1-Dichloroethane | 5. | IU |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | IU |
| 67-66-3 | Chloroform | 5. | IU |
| 107-02-2 | 1,2-Dichloroethane | 5. | IU |
| 78-93-3 | 2-Butanone | 10. | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | IU |
| 56-23-5 | Carbon Tetrachloride | 5. | IU |
| 108-05-4 | Vinyl Acetate | 10. | IU |
| 75-27-4 | Bromodichloromethane | 5. | IU |
| 78-87-5 | 1,2-Dichloropropane | 5. | IU |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | IU |
| 79-01-6 | Trichloroethene | 5. | IU |
| 124-48-1 | Dibromochloromethane | 5. | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | IU |
| 71-43-2 | Benzene | 5. | IU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | IU |
| 75-25-2 | Bromoform | 5. | IU |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | IU |
| 591-78-6 | 2-Hexanone | 10. | IU |
| 127-18-4 | Tetrachloroethene | 5. | IU |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | IU |
| 108-88-3 | Toluene | 5. | IU |
| 108-90-7 | Chlorobenzene | 5. | IU |
| 100-41-4 | Ethylbenzene | 5. | IU |
| 100-42-5 | Styrene | 5. | IU |
| 133-02-7 | Xylene (total) | 5. | IU |

0240948

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-1 12-13.5

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 890026-7

Sample wt/vol: 5 (g/mL) G Lab File ID: 0267A

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. 18.0 Date Analyzed: 1/16/89

Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0240949 EPA SAMPLE NO.

COMP /

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 89026-12

Sample wt/vol: 30 (g/mL) G  Lab File ID: >B2612

Level: (low/med) LOW  Date Received: 01/06/89

% Moisture: not dec. _____ dec. 12.6  Date Extracted: 01/11/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 1/15/89

GPC Cleanup: (Y/N) N  pH: 8.12  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240950

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 89026-12

Sample wt/vol: 30 (g/mL) G Lab File ID: >B2612

Level: (low/med) LOW Date Received: 01/06/89

% Moisture: not dec. _____ dec. 12.6 Date Extracted: 01/11/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/15/89

GPC Cleanup: (Y/N) N pH: 8.12 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 19. | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 330. | U |
| 120-12-7 | Anthracene | 330. | U |
| 84-74-2 | Di-n-butylphthalate | 330. | U |
| 206-44-0 | Fluoranthene | 330. | U |
| 129-00-0 | Pyrene | 330. | U |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 14. | J |
| 218-01-9 | Chrysene | 15. | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 24. | JB |
| 117-84-0 | Di-n-octyl_Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0240951 COMP 1

Lab Name: CORE LABORATORIES Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 890026-12A

Sample wt/vol: 30 (g/mL) G Lab File ID: B2612

Level: (low/med) LOW Date Received: 1/6/89

% Moisture: not dec. dec. 12.6 Date Extracted: 1/11/89

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 1/15/89

GPC Cleanup: (Y/N) N pH: 8.12 Dilution Factor: 1

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 630079 | PENTATRIACONTANE | 35.37 | 330 | |
| 2. | 7098228 | TETRATETRACONTANE | 39.42 | 220 | |
| 3. | | | | | |
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U.S. EPA - CLP

0240952

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890026-12

Level (low/med): LOW Date Received: 1/06/89

% Solids: 87.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 7.0 | | F | |
| 7440-39-3 | Barium | 161 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 8.9 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 12.6 | | F | * |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.15 | | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.2 | B | F | |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: _____ Texture: MED.

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

_____

_____

_____

0240953

NORTHERN UTILITIES

0240954

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 4

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-44

Sample wt/vol: 30 (g/mL) G Lab File ID: >B044A

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec. _____ dec. 15.67 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.31 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 330. | U |
| 95-57-8 | 2-Chlorophenol | 330. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U |
| 100-51-6 | Benzyl alcohol | 330. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U |
| 95-48-7 | 2-Methylphenol | 330. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U |
| 106-44-5 | 4-Methylphenol | 330. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 330. | U |
| 67-72-1 | Hexachloroethane | 330. | U |
| 98-95-3 | Nitrobenzene | 330. | U |
| 78-59-1 | Isophorone | 330. | U |
| 88-75-5 | 2-Nitrophenol | 330. | U |
| 105-67-9 | 2,4-Dimethylphenol | 330. | U |
| 65-85-0 | Benzoic acid | 1700. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 330. | U |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U |
| 91-20-3 | Naphthalene | 330. | U |
| 106-47-8 | 4-Chloroaniline | 330. | U |
| 87-68-3 | Hexachlorobutadiene | 330. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U |
| 91-57-6 | 2-Methylnaphthalene | 330. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U |
| 91-58-7 | 2-Chloronaphthalene | 330. | U |
| 88-74-4 | 2-Nitroaniline | 1700. | U |
| 131-11-3 | Dimethyl Phthalate | 330. | U |
| 208-96-8 | Acenaphthylene | 330. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330. | U |

0240955

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 4

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 890030-44

Sample wt/vol: 30 (g/mL) G Lab File ID: >B044A

Level: (low/med) LOW Date Received: 01/09/89

% Moisture: not dec._____ dec. 15.67 Date Extracted: 01/13/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.31 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U |
| 83-32-9 | Acenaphthene | 330. | U |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U |
| 100-02-7 | 4-Nitrophenol | 1700. | U |
| 132-64-9 | Dibenzofuran | 330. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330. | U |
| 84-66-2 | Diethylphthalate | 330. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U |
| 86-73-7 | Fluorene | 330. | U |
| 100-01-6 | 4-Nitroaniline | 1700. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U |
| 118-74-1 | Hexachlorobenzene | 330. | U |
| 87-86-5 | Pentachlorophenol | 1700. | U |
| 85-01-8 | Phenanthrene | 46. | J |
| 120-12-7 | Anthracene | 47. | J |
| 84-74-2 | Di-n-butylphthalate | 34. | J |
| 206-44-0 | Fluoranthene | 66. | J |
| 129-00-0 | Pyrene | 65. | J |
| 85-68-7 | Butylbenzylphthalate | 330. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U |
| 56-55-3 | Benzo(a)anthracene | 31. | J |
| 218-01-9 | Chrysene | 33. | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 35. | JB |
| 117-84-0 | Di-n-octyl_Phthalate | 330. | U |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U |
| 50-32-8 | Benzo(a)pyrene | 330. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 330. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

0240956 SAMPLE NO.

Comp 4

Lab Name: Core Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Soil Lab Sample ID: 890030-44

Sample wt/vol: 30 (g/mL) g Lab File ID: B044A

Level: (low/med) Low Date Received: 1/6/89

% Moisture: not dec. _____ dec. 15.67 Date Extracted: 1/13/89

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 1/16/89

GPC Cleanup: (Y/N) N pH: 8.31 Dilution Factor: 1

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
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| 29. | | | | | |
| 30. | | | | | |

0240957

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CORE LABORATORIES Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID: 890030-44

Level (low/med): LOW Date Received: 1/09/89

% Solids: 84.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | M | Q |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 7.5 | | F | |
| 7440-39-3 | Barium | 113 | | P | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | P | |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 15.0 | | P | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 24.9 | | F | S |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.04 | U | CV | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.4 | B | F | W |
| 7440-22-4 | Silver | 0.3 | U | P | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: Texture: FINE W/CLUMPS

Color After: Clarity After: Artifacts:

Comments:

0240958

# PERMIAN

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240959 | PERB-1,0'-2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-61

Sample wt/vol: 5 (g/mL) G Lab File ID: >66261

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 6. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

0240960 | PERB-1,0'-2

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-61

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66261

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 6. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0240961 | PERB-1,0'-2

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-61

Sample wt/vol: 5 (g/mL) G Lab File ID: >66261

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 5. | |
| 2. | | Unknown | 1.29 | 23. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.77 | 40. | |
| 4. | 1073069 | Benzene, 1-bromo-3-fluoro- ( | 17.63 | 79. | |
| 5. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.72 | 4. | |
| 6. | 19812647 | 1,14-Tetradecanediol (8CI9CI | 23.90 | 12. | |
| 7. | 27129879 | Benzenemethanol, 3,5-dimethy | 29.04 | 7. | |
| 8. | | | | | |
| 9. | | | | | |
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| 30. | | | | | |

QUANT REPORT 0240962

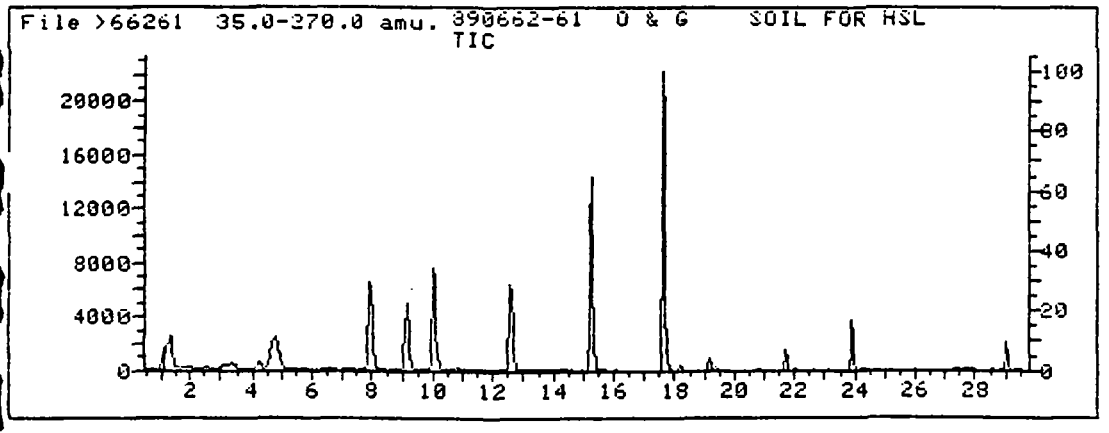
Operator ID: USER8 Quant Rev: 6 Quant Time: 890602 12:09
Output File: ^66261::BD Injected at: 890602 11:39
Data File: >66261::D7 Dilution Factor: 1.00000
ame: 890662-61 O & G
isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.92 | 187 | 11181 | 50.00 | UG/L | 94 |
| 6) | Methylene Chloride | 4.20 | 95 | 1951 | 6.46 | UG/L | 88 |
| 13) | 1,2-Dichloroethane-d4 | 9.18 | 218 | 16691 | 59.55 | UG/L | 98 |
| 15) | *1,4-Difluorobenzene | 10.03 | 239 | 32639 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.29 | 369 | 34123 | 50.00 | UG/L | 99 |
| 34) | Toluene d-8 | 12.58 | 302 | 18838 | 57.19 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.63 | 427 | 44918 | 49.23 | UG/L | 90 |

* Compound is ISTD

:



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240963 | PERB-1,2'-4

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-62

Sample wt/vol: 5 (g/mL) G Lab File ID: >66262

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: PERB-1,2'-4

Lab Name: CORE LABORATORIES  Contract: 0240964

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-62

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66262

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0240965

PERB-1,2'-4

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-62

Sample wt/vol: 5 (g/mL) G Lab File ID: >66262

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.29 | 160. | |
| 2. | | Unknown | 4.00 | 6. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.49 | 41. | |
| 4. | | Unknown | 19.13 | 4. | |
| 5. | 124196 | Nonanal (8CI9CI) | 21.72 | 9. | |
| 6. | 1860395 | Hexanal, 5-methyl- (8CI9CI) | 23.90 | 13. | |
| 7. | | | | | |
| 8. | | | | | |
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QUANT REPORT

0240966

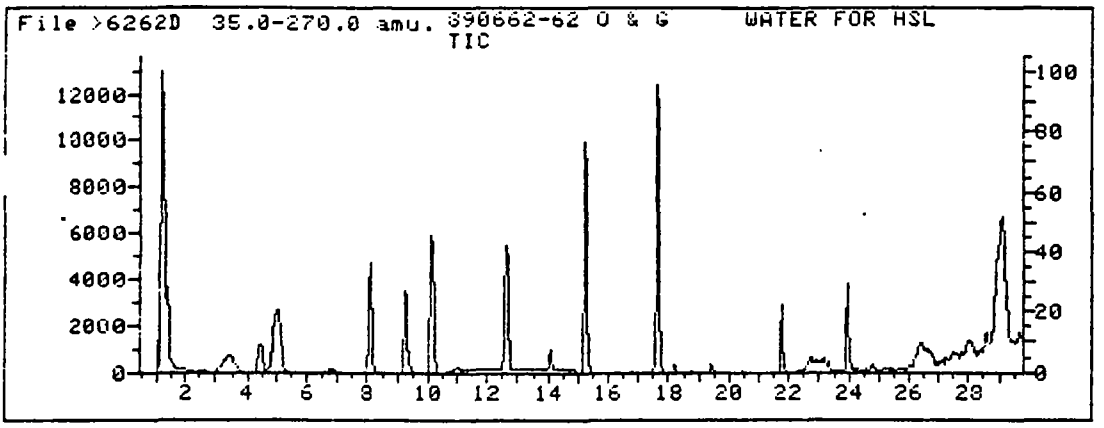
Operator ID: USER8 Quant Rev: 6 Quant Time: 890603 21:33
Output File: ^6262D::BD Injected at: 890603 21:02
Data File: >6262D::D7 Dilution Factor: 1.00000
Name: 890662-62 O & G
Misc: WATER FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 8.09 | 191 | 7476 | 50.00 | UG/L | 88 |
| 6) | Methylene Chloride | 4.41 | 100 | 4402 | 21.79 | UG/L | 96 |
| 13) | 1,2-Dichloroethane-d4 | 9.26 | 220 | 12055 | 60.43 | UG/L | 98 |
| 15) | *1,4-Difluorobenzene | 10.11 | 241 | 27051 | 50.00 | UG/L | 98 |
| 29) | *Chlorobenzene-d5 | 15.25 | 368 | 25165 | 50.00 | UG/L | 98 |
| 34) | Toluene d-8 | 12.62 | 303 | 16381 | 53.49 | UG/L | 97 |
| 39) | Bromofluorobenzene | 17.63 | 427 | 38791 | 49.78 | UG/L | 90 |

* Compound is ISTD

:



EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,4'-6

Lab Name: CORE LABORATORIES Contract: 0240967

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-63

Sample wt/vol: 5 (g/mL) G Lab File ID: >66263

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240968 PERB-1,4'-6

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-63

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66263

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERB-1,4'-6

Lab Name: CORE LABORATORIES Contract: 0240969

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-63

Sample wt/vol: 5 (g/mL) G Lab File ID: >66263

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.29 | 17. | |
| 2. | | Unknown | 4.16 | 9. | |
| 3. | | Unknown | 4.69 | 15. | |
| 4. | 19812647 | 1,14-Tetradecanediol (8CI9CI | 23.94 | 9. | |
| 5. | | Unknown | 24.31 | 6. | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
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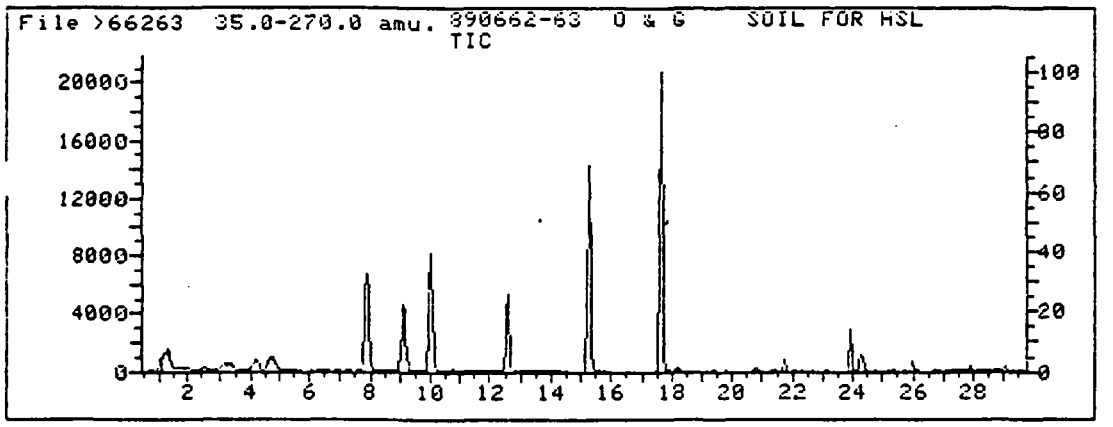
QUANT REPORT 0240970

Operator ID: USER8 Quant Rev: 6 Quant Time: 890602 13:25
Output File: ^66263::BD Injected at: 890602 12:55
Data File: >66263::D7 Dilution Factor: 1.00000
"ame: 890662-63 O & G
isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.88 | 186 | 11404 | 50.00 | UG/L | 92 |
| 13) | 1,2-Dichloroethane-d4 | 9.10 | 216 | 15441 | 54.02 | UG/L | 99 |
| 15) | *1,4-Difluorobenzene | 9.99 | 238 | 34715 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.25 | 368 | 35524 | 50.00 | UG/L | 96 |
| 34) | Toluene d-8 | 12.58 | 302 | 15322 | 56.18 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.67 | 428 | 25147 | 53.96 | UG/L | 97 |

* Compound is ISTD



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240971

| PERB-1,6'-8 |

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-64

Sample wt/vol: 5 (g/mL) G Lab File ID: >66264

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 7. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240972

PERB-1,6'-8

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-64

Sample wt/vol: 5 (g/mL) G Lab File ID: >66264

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 7. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0240973

PERB-1,6'-8

Lab Name: CORE LABORATORIES Contract: _____

Job Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-64

Sample wt/vol: 5 (g/mL) G Lab File ID: >66264

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.01 | 7. | |
| 2. | | Unknown | 1.17 | 54. | |
| 3. | | Unknown | 3.31 | 5. | |
| 4. | 110543 | Hexane (DOT)(8CI9CI) | 4.93 | 24. | |
| 5. | | Unknown | 23.94 | 3. | |
| 6. | | Unknown | 24.27 | 9. | |
| 7. | | | | | |
| 8. | | | | | |
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QUANT REPORT 0240974

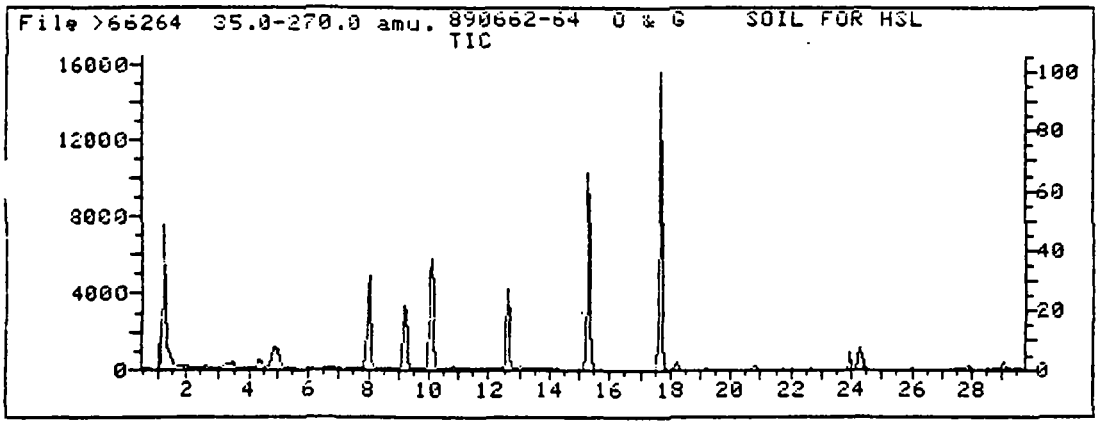
Operator ID: USER8 Quant Rev: 6 Quant Time: 890602 14:04
Output File: ^66264::BD Injected at: 890602 13:33
Data File: >66264::D7 Dilution Factor: 1.00000
Name: 890662-64 O & G
Misc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 8.01 | 189 | 7731 | 50.00 | UG/L | 90 |
| 6) | Methylene Chloride | 4.37 | 99 | 1514 | 7.25 | UG/L | 91 |
| 13) | 1,2-Dichloroethane-d4 | 9.18 | 218 | 10690 | 55.16 | UG/L | 99 |
| 15) | *1,4-Difluorobenzene | 10.07 | 240 | 23640 | 50.00 | UG/L | 94 |
| 29) | *Chlorobenzene-d5 | 15.29 | 369 | 25120 | 50.00 | UG/L | 97 |
| 34) | Toluene d-8 | 12.62 | 303 | 12321 | 50.89 | UG/L | 98 |
| 39) | Bromofluorobenzene | 17.67 | 428 | 17110 | 51.92 | UG/L | 92 |

* Compound is ISTD

:



1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0240975 | PERB-1,8'-1

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-65

Sample wt/vol: 5 (g/mL) G Lab File ID: >66265

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0240976

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB1 (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-41

Level (low/med): LOW Date Received: 5/26/89

% Solids: 95.50%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 1.6 | | * | F |
| 7440-39-3 | Barium | 40 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 6 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 2.8 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.1 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0240977

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

~~EPA~~ SAMPLE NO.

SIVB2 (COMP.)

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-60

Level (low/med): LOW Date Received: 5/26/89

% Solids: 95.87%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 7.0 | | | F |
| 7440-39-3 | Barium | 33 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 5 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 5.0 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.5 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN

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# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890916 **DATE RECEIVED:** 11/08/89 **SAMPLE DATE:** 11/06/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-1 NORTHWEST CORNER (34'-36')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(200) | ug/kg |
| Bromoform | ND(200) | ug/kg |
| Carbon tetrachloride | ND(200) | ug/kg |
| Chlorobenzene | ND(200) | ug/kg |
| Chloroform | ND(200) | ug/kg |
| Dibromochloromethane | ND(200) | ug/kg |
| 1,2-Dichlorobenzene | ND(200) | ug/kg |
| 1,3-Dichlorobenzene | ND(200) | ug/kg |
| 1,4-Dichlorobenzene | ND(200) | ug/kg |
| Dichlorodifluoromethane | ND(2000) | ug/kg |
| 1,1-Dichloroethane | ND(200) | ug/kg |
| 1,2-Dichloroethane | ND(200) | ug/kg |
| 1,1-Dichloroethene | ND(200) | ug/kg |
| trans-1,2-Dichloroethene | ND(200) | ug/kg |
| 1,2-Dichloropropane | ND(200) | ug/kg |
| cis-1,3-Dichloropropene | ND(200) | ug/kg |
| trans-1,3-Dichloropropene | ND(200) | ug/kg |
| Methylene chloride | ND(200) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(200) | ug/kg |
| Tetrachloroethene | ND(200) | ug/kg |
| 1,1,1-Trichloroethane | ND(200) | ug/kg |
| 1,1,2-Trichloroethane | ND(200) | ug/kg |
| Trichloroethene | ND(200) | ug/kg |
| Trichlorofluoromethane | ND(2000) | ug/kg |
| Bromomethane | ND(2000) | ug/kg |
| Chloroethane | ND(2000) | ug/kg |
| Chloromethane | ND(2000) | ug/kg |
| Vinyl chloride | ND(2000) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Shaff Virginia R. Bleich

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CUSTOMER: O'BRIEN & GERE ATTN: MARK RANDAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

JOB NUMBER: 890916 DATE RECEIVED: 11/08/89 SAMPLE DATE: 11/06/89

PROJECT: O'BRIEN & GERE-BROOKHURST SAMPLE ID: SIB-1 NORTHWEST CORNER (34'-36')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND (200) | ug/kg |
| Chlorobenzene | ND (200) | ug/kg |
| Ethylbenzene | 400 (200) | ug/kg |
| 1,2-Dichlorobenzene | ND (200) | ug/kg |
| 1,3-Dichlorobenzene | ND (200) | ug/kg |
| 1,4-Dichlorobenzene | ND (200) | ug/kg |
| Toluene | 8900(200) | ug/kg |
| Total Xylenes | 17000(200) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Shall Virginia R. Bench

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CUSTOMER: O'BRIEN & GERE ATTN: MARK RANDAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

JOB NUMBER: 890924 DATE RECEIVED: 11/09/89 SAMPLE DATE: 11/07/89

PROJECT:O'BRIEN & GERE-BROOKHURST SAMPLE ID: SIB-2 (SOUTH END)

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND20.5) | ug/kg |
| Chlorobenzene | 8 (2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | 5 (2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Stroh Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890924 **DATE RECEIVED:** 11/09/89 **SAMPLE DATE:** 11/07/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-2 (SOUTH END)

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | 8 (2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Rudolf Virginia R. Sleich

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L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890924 **DATE RECEIVED:** 11/09/89 **SAMPLE DATE:** 11/07/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-3 (NORTHEAST END)

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | 6 (2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890924 **DATE RECEIVED:** 11/09/89 **SAMPLE DATE:** 11/07/89

**PROJECT:**O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-3 (NORTHEAST END)

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary Child Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890924 **DATE RECEIVED:** 11/09/89 **SAMPLE DATE:** 11/07/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-4 (NORTH END)

### EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | 7 (2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | 3 (2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | 6 (2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Shadel Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890924 **DATE RECEIVED:** 11/09/89 **SAMPLE DATE:** 11/07/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-4 (NORTH END)

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | 7 (2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Virginia R Black

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890926 **DATE RECEIVED:** 11/10/89 **SAMPLE DATE:** 11/08/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-5 (SOUTHWEST CORNER--34'-36')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Hadef Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890926 **DATE RECEIVED:** 11/10/89 **SAMPLE DATE:** 11/08/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-5 (SOUTHWEST CORNER--34'-36')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Stidel Virginia R. Bleich

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0240988

Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

CUSTOMER: O'BRIEN & GERE ATTN: MARK RANDAOZZA

## L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

JOB NUMBER: 890926 DATE RECEIVED: 11/10/89 SAMPLE DATE: 11/08/89

PROJECT: O'BRIEN & GERE-BROOKHURST SAMPLE ID: SIB-6 (SOUTHEAST SIDE--34'-36')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Shadel Virginia R. Bleich

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# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890926 **DATE RECEIVED:** 11/10/89 **SAMPLE DATE:** 11/08/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-6 (SOUTHEAST SIDE--34'-36')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Hodel Virginia R. Bleich

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0240990

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# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

## L A B O R A T O R Y  T E S T S  R E S U L T S
11/29/89

**JOB NUMBER:** 890926 **DATE RECEIVED:** 11/10/89 **SAMPLE DATE:** 11/08/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-7 (SOUTHEAST CORNER--34'-36')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | 4 (2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Stodel Virginia R. Bleich

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0240991

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# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890926 **DATE RECEIVED:** 11/10/89 **SAMPLE DATE:** 11/08/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-7 (SOUTHEAST CORNER--34'-36')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Hadel Virginia R. Blanch

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# CORE LABORATORIES

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890927 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/09/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-8(EAST-SOUTH SIDE 38'-40')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Stodal Virginia R. Bleich

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: PERB-1,8'-1

Lab Name: CORE LABORATORIES  Contract: 0240993

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-65

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66265

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/02/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.03 | 7. | |
| 2. | | Unknown | 1.15 | 52. | |
| 3. | | Unknown | 4.22 | 6. | |
| 4. | 110543 | Hexane (DOT)(8CI9CI) | 4.79 | 40. | |
| 5. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.74 | 6. | |
| 6. | 19812647 | 1,14-Tetradecanediol (8CI9CI | 23.92 | 16. | |
| 7. | | Unknown | 24.29 | 17. | |
| 8. | | | | | |
| 9. | | | | | |
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QUANT REPORT 0240994

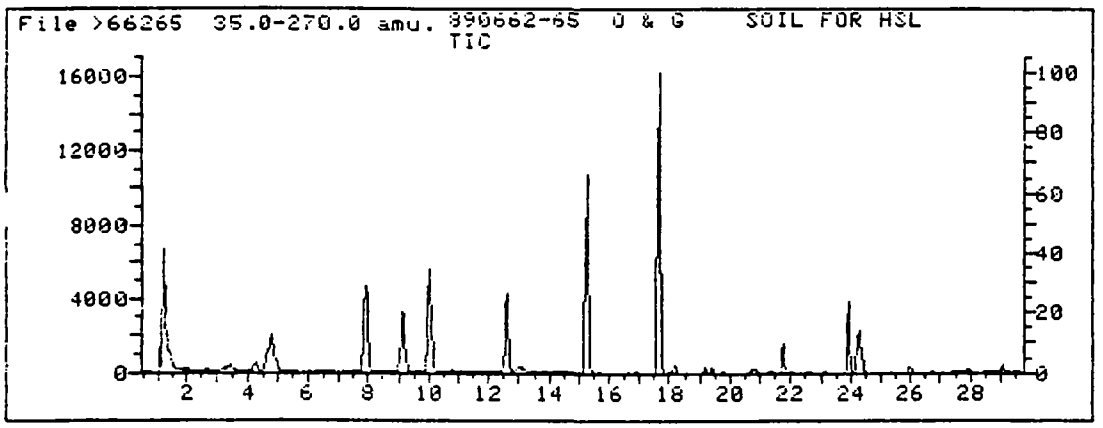
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Output File: ^66265::BD Injected at: 890602 14:11
Data File: >66265::D7 Dilution Factor: 1.00000
Name: 890662-65 O & G
Misc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.90 | 186 | 7916 | 50.00 | UG/L | 94 |
| 13) | 1,2-Dichloroethane-d4 | 9.12 | 216 | 10811 | 54.48 | UG/L | 97 |
| 15) | *1,4-Difluorobenzene | 10.01 | 238 | 22912 | 50.00 | UG/L | 97 |
| 29) | *Chlorobenzene-d5 | 15.27 | 368 | 24569 | 50.00 | UG/L | 98 |
| 34) | Toluene d-8 | 12.60 | 302 | 12346 | 56.45 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.65 | 427 | 18093 | 56.13 | UG/L | 93 |

* Compound is ISTD

:



EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0240995 | PERB-1,10'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-66

Sample wt/vol: 5 (g/mL) G Lab File ID: >66266

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: PERB-1,10'-

Lab Name: CORE LABORATORIES  Contract: 0240996

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-66

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66266

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0240997 | PERB-1,10'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-66

Sample wt/vol: 5 (g/mL) G Lab File ID: >66266

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.13 | 14. | |
| 2. | | Unknown | 4.08 | 5. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.57 | 32. | |
| 4. | 2040962 | Cyclopentane, propyl- (8CI9C | 23.90 | 5. | |
| 5. | | | | | |
| 6. | | | | | |
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QUANT REPORT

0240998

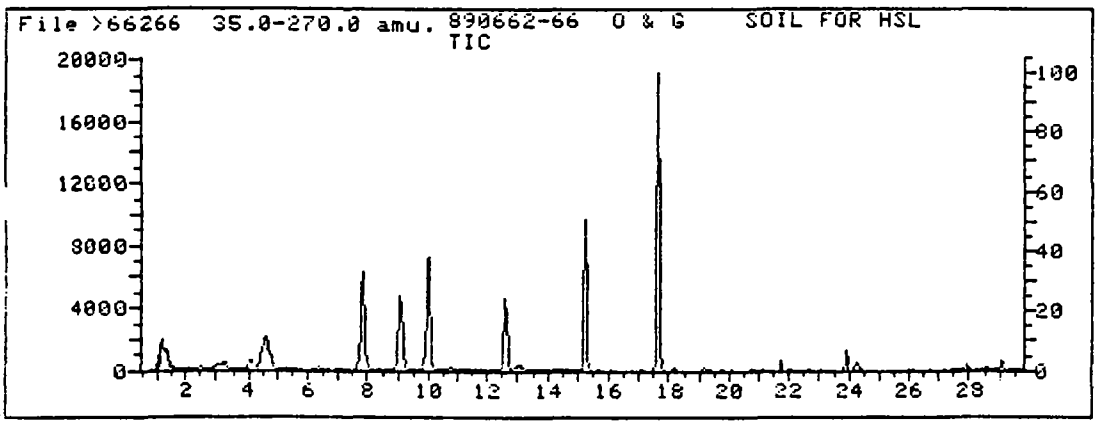
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Output File: ^66266::BD Injected at: 890602 14:50
Data File: >66266::D7 Dilution Factor: 1.00000
ame: 890662-66 O & G
..isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.80 | 184 | 11343 | 50.00 | UG/L | 91 |
| 13) | 1,2-Dichloroethane-d4 | 9.06 | 215 | 16043 | 56.42 | UG/L | 98 |
| 15) | *1,4-Difluorobenzene | 9.95 | 237 | 32475 | 50.00 | UG/L | 97 |
| 29) | *Chlorobenzene-d5 | 15.21 | 367 | 23610 | 50.00 | UG/L | 98 |
| 34) | Toluene d-8 | 12.58 | 302 | 13627 | 52.48 | UG/L | 98 |
| 39) | Bromofluorobenzene | 17.63 | 427 | 24061 | 52.68 | UG/L | 98 |

* Compound is ISTD

:



EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0240999 | PERB-1,12'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-67

Sample wt/vol: 5 (g/mL) G Lab File ID: >66267

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,12'-

Lab Name: CORE LABORATORIES  Contract: 0241000

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-67

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66267

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0241001 | PERB-1,12'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-67

Sample wt/vol: 5 (g/mL) G Lab File ID: >66267

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.01 | 5. | |
| 2. | | Unknown | 1.13 | 45. | |
| 3. | 590216 | 1-Propene, 1-chloro- (9CI) | 3.48 | 6. | |
| 4. | 110543 | Hexane (DOT)(8CI9CI) | 4.89 | 26. | |
| 5. | 14850238 | 4-Octene, (E)- (8CI9CI) | 23.90 | 4. | |
| 6. | | Unknown | 24.27 | 10. | |
| 7. | | | | | |
| 8. | | | | | |
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| 30. | | | | | |

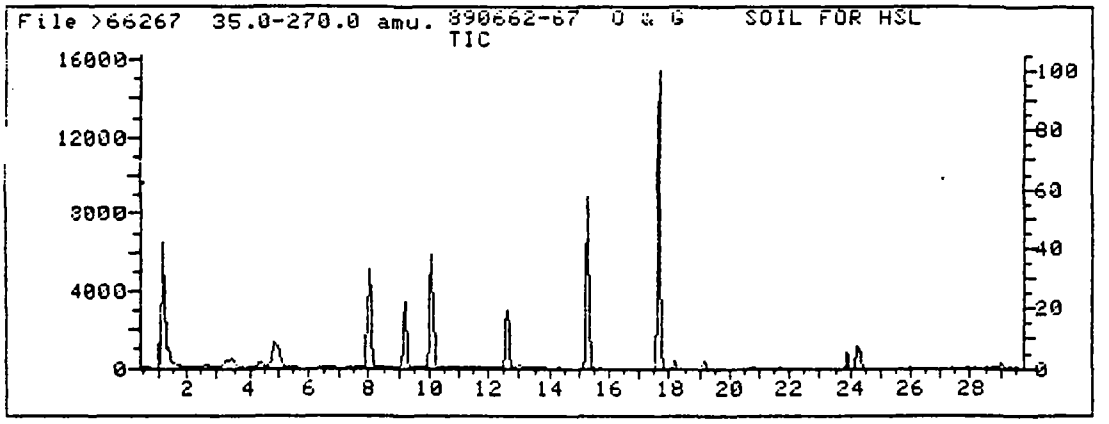
QUANT REPORT 0241002

Operator ID: USER8 Quant Rev: 6 Quant Time: 890602 17:38
Output File: ^66267::BD Injected at: 890602 17:08
Data File: >66267::D7 Dilution Factor: 1.00000
"ame: 890662-67 O & G
isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 8.01 | 189 | 8455 | 50.00 | UG/L | 97 |
| 6) | Methylene Chloride | 4.41 | 100 | 1077 | 4.71 | UG/L | 88 |
| 13) | 1,2-Dichloroethane-d4 | 9.22 | 219 | 10603 | 50.03 | UG/L | 98 |
| 15) | *1,4-Difluorobenzene | 10.07 | 240 | 23716 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.29 | 369 | 21612 | 50.00 | UG/L | 97 |
| 34) | Toluene d-8 | 12.62 | 303 | 8402 | 50.64 | UG/L | 97 |
| 39) | Bromofluorobenzene | 17.67 | 428 | 17538 | 61.86 | UG/L | 96 |

* Compound is ISTD



EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0241003 | PERB-1,14'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-68

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66268

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB-1,14'-

Lab Name: CORE LABORATORIES Contract: 0241004

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-68

Sample wt/vol: 5 (g/mL) G Lab File ID: >66268

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0241005 | PERB-1,14'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-68

Sample wt/vol: 5 (g/mL) G Lab File ID: >66268

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.33 | 5. | |
| 2. | | Unknown | 3.39 | 6. | |
| 3. | 110543 | Hexane (DOT)(8CI9CI) | 4.81 | 35. | |
| 4. | 1073069 | Benzene, 1-bromo-3-fluoro- ( | 17.63 | 73. | |
| 5. | 19812647 | 1,14-Tetradecanediol (8CI9CI | 23.90 | 6. | |
| 6. | | Unknown | 24.27 | 7. | |
| 7. | | | | | |
| 8. | | | | | |
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QUANT REPORT 0241006

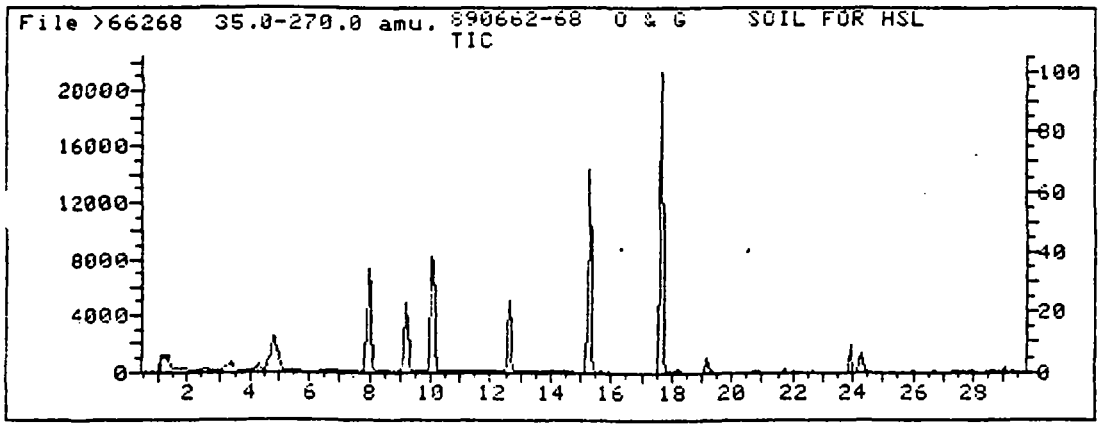
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Output File: ^66268::BD Injected at: 890602 17:46
Data File: >66268::D7 Dilution Factor: 1.00000
'ame: 890662-68 O & G
.isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.97 | 188 | 12109 | 50.00 | UG/L | 91 |
| 13) | 1,2-Dichloroethane-d4 | 9.18 | 218 | 15697 | 51.71 | UG/L | 98 |
| 15) | *1,4-Difluorobenzene | 10.03 | 239 | 35313 | 50.00 | UG/L | 97 |
| 29) | *Chlorobenzene-d5 | 15.29 | 369 | 34605 | 50.00 | UG/L | 98 |
| 34) | Toluene d-8 | 12.58 | 302 | 15223 | 57.30 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.67 | 428 | 23024 | 45.82 | UG/L | 90 |

* Compound is ISTD

:



EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,16'-

Lab Name: CORE LABORATORIES Contract: 0241007

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-69

Sample wt/vol: 5 (g/mL) G Lab File ID: >66269

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB-1,18'-

Lab Name: CORE LABORATORIES  Contract: 0241008

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-70

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66270

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/03/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB-1,20'-

Lab Name: CORE LABORATORIES  Contract: 0241009

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-71

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66271

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/03/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 29. | ~~B~~ |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 20. | |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,22'-

Lab Name: CORE LABORATORIES  Contract: 0241010

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-72

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66272

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,24'-

Lab Name: CORE LABORATORIES Contract: 0241011

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-73

Sample wt/vol: 5 (g/mL) G Lab File ID: >66273

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/03/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 14. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 10. | |

1H

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

PERB-1,26'-

Lab Name: CORE LABORATORIES  Contract: 0241012

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-74

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66274

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/03/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 73. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 50. | |

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0241013 | PERB-1,28'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-75

Sample wt/vol: 5 (g/mL) G Lab File ID: >66275

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/03/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 24. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 3. | J |

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241014 PERB-1,30'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-76

Sample wt/vol: 5 (g/mL) G Lab File ID: >66276

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/03/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 30. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 9. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 6. | |

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB-1,6'-8

Lab Name: CORE LABORATORIES Contract: 0241015

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-77

Sample wt/vol: 5 (g/mL) G Lab File ID: >66277

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/03/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 23. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 55. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 56. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 60. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 74. | |
| 108-90-7 | Chlorobenzene | 59. | |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

EPA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241016 PERB-1,6'-8

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-78

Sample wt/vol: 5 (g/mL) G Lab File ID: >66278

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/03/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 22. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 50. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 54. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 63. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 83. | |
| 108-90-7 | Chlorobenzene | 58. | |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241017

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (0-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-2SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4542M MS

Sample wt/vol: 5 (g/mL) G Lab File ID: >4542M

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 5. | U |
| 67-64-1 | Acetone | 25. | B |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 35. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 42. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 43. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 38. | |
| 108-90-7 | Chlorobenzene | 42. | |
| 133-02-7 | Xylene (m & p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241018

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (54

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45419 MS

Sample wt/vol: 5 (g/mL) G Lab File ID: >5419M

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 42. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 56. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 49. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 49. | |
| 108-90-7 | Chlorobenzene | 58. | |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241019

QUANT REPORT

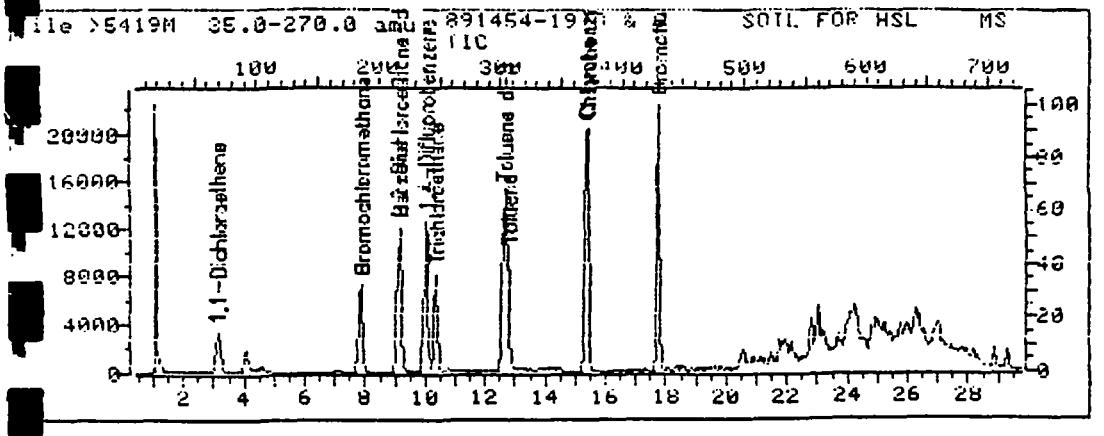
Operator ID: USER8 Quant Rev: 6 Quant Time: 891110 18:09
Output File: ^5419M::QT Injected at: 891110 17:39
Data File: >5419M::L2 Dilution Factor: 1.00000
Name: 891454-19 D & G
Misc: SOIL FOR HSL MS

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 891004 08:19

| | Compound | R.T. | Scan# | Area | Conc | Units | c |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.88 | 186 | 10742 | 50.00 | UG/L | 9 |
| 9) | 1,1-Dichloroethene | 3.15 | 69 | 6367 | 42.33 | UG/L | 8 |
| 13) | 1,2-Dichloroethane-d4 | 9.13 | 217 | 28822 | 59.01 | UG/L | 8 |
| 15) | *1,4-Difluorobenzene | 10.02 | 239 | 44547 | 50.00 | UG/L | 9 |
| 23) | Trichloroethene | 10.35 | 247 | 11890 | 55.59 | UG/L | 9 |
| 24) | Benzene | 9.13 | 217 | 22828 | 48.69 | UG/L | 9 |
| 29) | *Chlorobenzene-d5 | 15.36 | 371 | 30238 | 50.00 | UG/L | 9 |
| 34) | Toluene d-8 | 12.65 | 304 | 41064 | 54.87 | UG/L | 9 |
| 35) | Toluene | 12.77 | 307 | 16150 | 49.11 | UG/L | 9 |
| 36) | Chlorobenzene | 15.40 | 372 | 19549 | 58.16 | UG/L | 9 |
| 40) | Bromofluorobenzene | 17.75 | 431 | 24785 | 47.97 | UG/L | 9 |

* Compound is ISTD

:



0241020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (U-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-2SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >42MSC MSD

Sample wt/vol: 5 (g/mL) G Lab File ID: >42MSD

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 12. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 40. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 49. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 44. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 40. | |
| 108-90-7 | Chlorobenzene | 50. | |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241021

QUANT REPORT

Operator ID: USER8
Output File: >42MSD::QT
Data File: >42MSD::L2
Name: 891454-2 D & G
Misc: SOIL FOR HSL MSD

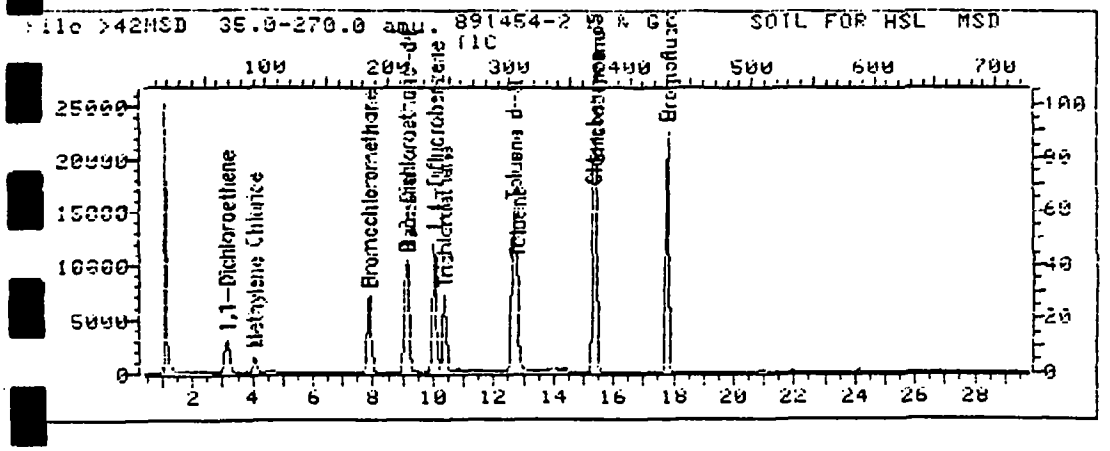
Quant Rev: A Quant Time: 891110 16:55
Injected at: 891110 16:25
Dilution Factor: 1.00000

ID File: IDHSL::8D
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 891004 08:19

| | Compound | R.T. | Scan# | Area | Conc | Units | c |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.84 | 185 | 10733 | 50.00 | UG/L | 9 |
| 6) | Methylene Chloride | 4.04 | 91 | 3151 | 12.01 | UG/L | 9 |
| 9) | 1,1-Dichloroethene | 3.11 | 68 | 6059 | 40.32 | UG/L | 9 |
| 13) | 1,2-Dichloroethane-d4 | 9.09 | 216 | 25818 | 52.90 | UG/L | 9 |
| 15) | *1,4-Difluorobenzene | 10.02 | 239 | 47570 | 50.00 | UG/L | 9 |
| 23) | Trichloroethene | 10.35 | 247 | 11268 | 49.33 | UG/L | 9 |
| 24) | Benzene | 9.13 | 217 | 22172 | 44.20 | UG/L | 9 |
| 29) | *Chlorobenzene-d5 | 15.32 | 370 | 35220 | 50.00 | UG/L | 9 |
| 34) | Toluene d-8 | 12.65 | 304 | 40998 | 47.03 | UG/L | 9 |
| 35) | Toluene | 12.77 | 307 | 15324 | 40.00 | UG/L | 9 |
| 36) | Chlorobenzene | 15.40 | 372 | 19542 | 49.92 | UG/L | 9 |
| 40) | Bromofluorobenzene | 17.79 | 431 | 25126 | 41.75 | UG/L | 9 |

* Compound is ISTD

:



0241022

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (34

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: 891454-1SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >45419 MSD

Sample wt/vol: 5 (g/mL) G  Lab File ID: >5419S

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec.1  Date Analyzed: 11/10/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 19. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 50. | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 63. | |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 59. | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 54. | |
| 108-90-7 | Chlorobenzene | 66. | |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241023

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 2-19

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G Lab File ID: >B5421

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 1.0 dec. 0.0 Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 660. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U |
| 95-57-8 | 2-Chlorophenol | 660. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U |
| 100-51-6 | Benzyl alcohol | 660. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U |
| 95-48-7 | 2-Methylphenol | 660. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U |
| 106-44-5 | 4-Methylphenol | 660. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 660. | U |
| 67-72-1 | Hexachloroethane | 660. | U |
| 98-95-3 | Nitrobenzene | 660. | U |
| 78-59-1 | Isophorone | 660. | U |
| 88-75-5 | 2-Nitrophenol | 660. | U |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U |
| 65-85-0 | Benzoic acid | 3300. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U |
| 91-20-3 | Naphthalene | 660. | U |
| 106-47-8 | 4-Chloroaniline | 660. | U |
| 87-68-3 | Hexachlorobutadiene | 660. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U |
| 91-57-6 | 2-Methylnaphthalene | 660. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 3300. | U |
| 91-58-7 | 2-Chloronaphthalene | 660. | U |
| 88-74-4 | 2-Nitroaniline | 3300. | U |
| 131-11-3 | Dimethyl Phthalate | 660. | U |
| 208-96-8 | Acenaphthylene | 660. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | U |

0241024

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 2-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B5421

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3300. | U |
| 83-32-9 | Acenaphthene | 660. | U |
| 51-28-5 | 2,4-Dinitrophenol | 3300. | U |
| 100-02-7 | 4-Nitrophenol | 3300. | U |
| 132-64-9 | Dibenzofuran | 660. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U |
| 84-66-2 | Diethylphthalate | 660. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U |
| 86-73-7 | Fluorene | 660. | U |
| 100-01-6 | 4-Nitroaniline | 3300. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3300. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U |
| 118-74-1 | Hexachlorobenzene | 660. | U |
| 87-86-5 | Pentachlorophenol | 3300. | U |
| 85-01-8 | Phenanthrene | 660. | U |
| 120-12-7 | Anthracene | 660. | U |
| 84-74-2 | Di-n-butylphthalate | 660. | U |
| 206-44-0 | Fluoranthene | 660. | U |
| 129-00-0 | Pyrene | 660. | U |
| 85-68-7 | Butylbenzylphthalate | 660. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1300. | U |
| 56-55-3 | Benzo(a)anthracene | 660. | U |
| 218-01-9 | Chrysene | 660. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | U |
| 117-84-0 | Di-n-octyl phthalate | 660. | U |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U |
| 50-32-8 | Benzo(a)pyrene | 660. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0241025 | COMP 2-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B5421

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. ----  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) Y  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 13757910 | 2-Heptanone, 3-hydroxy-3-met | 9.88 | 190. | |
| No hits for scan 48. of File >B5421 | | | | | |
| 3. | 1515760 | 1,3-Butadien-1-ol, acetate ( | 12.61 | 8. | |
| 4. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.55 | 10. | |
| 5. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.59 | 8. | |
| 6. | 1678928 | Cyclohexane, propyl- (8CI9CI | 20.98 | 7. | |
| 7. | 56292650 | Dodecane, 2,5-dimethyl- (9CI | 21.87 | 8. | |
| 8. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 22.08 | 15. | |
| 9. | 575371 | Naphthalene, 1,7-dimethyl- ( | 22.28 | 29. | |
| 10. | 575371 | Naphthalene, 1,7-dimethyl- ( | 22.55 | 31. | |
| 11. | 581420 | Naphthalene, 2,6-dimethyl- ( | 22.62 | 17. | |
| 12. | 87854 | Benzene, hexamethyl- (8CI9CI | 22.70 | 9. | |
| 13. | 5881174 | Octane, 3-ethyl- (8CI9CI) | 22.95 | 35. | |
| 14. | 571584 | Naphthalene, 1,4-dimethyl- ( | 23.20 | 7. | |
| 15. | 2131422 | Naphthalene, 1,4,6-trimethyl | 23.99 | 15. | |
| 16. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.35 | 24. | |
| 17. | 2131422 | Naphthalene, 1,4,6-trimethyl | 24.44 | 19. | |
| 18. | 2027170 | Naphthalene, 2-(1-methylethy | 24.71 | 10. | |
| 19. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.99 | 11. | |
| 20. | 17312557 | Decane, 3,6-dimethyl- (8CI9C | 25.94 | 24. | |
| 21. | 629787 | Heptadecane (8CI9CI) | 26.70 | 7. | |
| 22. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.79 | 21. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW SUR

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4541D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4541D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 2200. | U D |
| 74-83-9 | Bromomethane | 2200. | U D |
| 75-01-4 | Vinyl Chloride | 2200. | U D |
| 75-00-3 | Chloroethane | 2200. | U D |
| 75-09-2 | Methylene_Chloride | 1300. | JBD |
| 67-64-1 | Acetone | 2200. | U D |
| 75-15-0 | Carbon Disulfide | 1100. | U D |
| 75-35-4 | 1,1-Dichloroethene | 1100. | U D |
| 75-34-3 | 1,1-Dichloroethane | 1100. | U D |
| 540-59-0 | 1,2-Dichloroethene_(total) | 1100. | U D |
| 67-66-3 | Chloroform | 1100. | U D |
| 107-02-2 | 1,2-Dichloroethane | 1100. | U D |
| 78-93-3 | 2-Butanone | 2200. | U D |
| 71-55-6 | 1,1,1-Trichloroethane | 1100. | U D |
| 56-23-5 | Carbon Tetrachloride | 1100. | U D |
| 108-05-4 | Vinyl Acetate | 2200. | U D |
| 75-27-4 | Bromodichloromethane | 1100. | U D |
| 78-87-5 | 1,2-Dichloropropane | 1100. | U D |
| 10061-01-5 | cis-1,3-Dichloropropene | 1100. | U D |
| 79-01-6 | Trichloroethene | 1100. | U D |
| 124-48-1 | Dibromochloromethane | 1100. | U D |
| 79-00-5 | 1,1,2-Trichloroethane | 1100. | U D |
| 71-43-2 | Benzene | 1100. | U D |
| 10061-02-6 | trans-1,3-Dichloropropene | 1100. | U D |
| 75-25-2 | Bromoform | 1100. | U D |
| 108-10-1 | 4-Methyl-2-pentanone | 2200. | U D |
| 591-78-6 | 2-Hexanone | 2200. | U D |
| 127-18-4 | Tetrachloroethene | 1100. | U D |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1100. | U D |
| 108-88-3 | Toluene | 1100. | U D |
| 108-90-7 | Chlorobenzene | 1100. | U D |
| 133-02-7 | Xylene (m_&_p) | 1200. | D |
| 100-41-4 | Ethylbenzene | 1100. | U D |
| 100-42-5 | Styrene | 1100. | U D |
| 133-02-7 | Xylene (total) | 800. | J D |

0241027

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW SUR

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4541D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4541D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 91. | |
| 2. | 3726474 | Cyclopentane, 1-ethyl-3-meth | 13.87 | 7. | |
| 3. | 53366384 | Cyclopentane, (2-methylbutyl | 17.38 | 8. | |
| 4. | 98828 | Benzene, (1-methylethyl)- (9 | 18.40 | 12. | |
| 5. | 526738 | Benzene, 1,2,3-trimethyl- (8 | 19.16 | 13. | |
| 6. | 821976 | 3-Undecene, (Z)- (8CI9CI) | 20.54 | 12. | |
| 7. | 55255925 | 4,7-Methano-1H-inden-1-ol, o | 21.51 | 8. | |
| 8. | 4292926 | Cyclohexane, pentyl- (8CI9CI | 21.79 | 8. | |
| 9. | 55255925 | 4,7-Methano-1H-inden-1-ol, o | 22.00 | 7. | |
| 10. | | Unknown | 22.81 | 8. | |
| 11. | 933982 | Benzene, 1-ethyl-2,3-dimethyl | 23.21 | 12. | |
| 12. | 4175535 | 1H-Indene, 2,3-dihydro-1,3-d | 24.06 | 19. | |
| 13. | 96 | Naphthalene | 24.55 | 10. | |
| 14. | 17057828 | 1H-Indene, 2,3-dihydro-1,2-d | 25.76 | 11. | |
| 15. | 4175546 | Naphthalene, 1,2,3,4-tetrahyl | 26.25 | 10. | |
| 16. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.81 | 43. | |
| 17. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.30 | 19. | |
| 18. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.71 | 11. | |
| 19. | 575371 | Naphthalene, 1,7-dimethyl- ( | 28.88 | 26. | |
| 20. | 571584 | Naphthalene, 1,4-dimethyl- ( | 29.32 | 25. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241028

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (0-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-2SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14542

Sample wt/vol: 5 (g/mL) G Lab File ID: >14542

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene Chloride | 5. | U | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241029

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (U-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-2SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14542

Sample wt/vol: 5 (g/mL) G Lab File ID: >14542

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | .99 | 9. | |
| 2. | | Unknown | 1.11 | 69. | |
| 3. | | Unknown | 20.93 | 14. | |
| 4. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.79 | 12. | |
| 5. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 27.24 | 6. | |
| 6. | 1127760 | Naphthalene, 1-ethyl- (8C19C | 28.70 | 7. | |
| 7. | 575371 | Naphthalene, 1,7-dimethyl- ( | 28.86 | 36. | |
| 8. | 569415 | Naphthalene, 1,8-dimethyl- ( | 29.30 | 48. | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241030

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (2-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-3SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14543

Sample wt/vol: 5 (g/mL) G Lab File ID: >14543

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 13. | B |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 133-02-7 | Xylene (m_&_p) | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

0241031

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
PERMIAW (2-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-3SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14543

Sample wt/vol: 5 (g/mL) G Lab File ID: >14543

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.10 | 53. | |
| 2. | | Unknown | 4.70 | 6. | |
| 3. | 3031081 | Naphthalene, 1,3,6-trimethyl | 25.66 | 5. | |
| 4. | 4453911 | 1,4-Methanonaphthalene, 1,4- | 26.79 | 4. | |
| 5. | 575439 | Naphthalene, 1,6-dimethyl- ( | 28.85 | 8. | |
| 6. | 571584 | Naphthalene, 1,4-dimethyl- ( | 29.30 | 11. | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241032

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (4-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-4SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4544D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4544D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 700. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 100. | J |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 300. | J |

0241033

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

PERMIAW (4-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-4SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4544D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4544D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 100. | |
| 2. | 449 | 1,4-Difluorobenzene | 10.10 | 48. | |
| 3. | 4516692 | Cyclopentane, 1,1,3-trimethyl | 13.91 | 8. | |
| 4. | 98828 | Benzene, (1-methylethyl)- (9 | 18.36 | 8. | |
| 5. | 620144 | Benzene, 1-ethyl-3-methyl- ( | 19.20 | 9. | |
| 6. | 69 | Benzene, ethyl- | 20.58 | 12. | |
| 7. | 65142960 | Spiro[3.5]nonan-1-one, 5-met | 21.51 | 8. | |
| 8. | | Unknown | 21.79 | 7. | |
| 9. | 18127145 | Norbornane, 2-isobutyl- (8CI | 21.96 | 8. | |
| 10. | | Unknown | 22.85 | 10. | |
| 11. | 488233 | Benzene, 1,2,3,4-tetramethyl | 23.21 | 12. | |
| 12. | 4431894 | Cyclohexane, (cyclopentylmet | 24.10 | 27. | |
| 13. | 96 | Naphthalene | 24.55 | 11. | |
| 14. | 12057828 | 1H-Indene, 2,3-dihydro-1,2-d | 25.76 | 13. | |
| 15. | 5557937 | Benzene, 1-(1-methylethenyl) | 26.25 | 13. | |
| 16. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 26.81 | 61. | |
| 17. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 27.30 | 19. | |
| 18. | 1127760 | Naphthalene, 1-ethyl- (8C19C | 28.79 | 19. | |
| 19. | 575417 | Naphthalene, 1,3-dimethyl- ( | 28.96 | 63. | |
| 20. | 100 | Naphthalene | 29.36 | 23. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241034

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (6-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-5SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14545

Sample wt/vol: 5 (g/mL) G Lab File ID: >14545

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 6. | B | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 1. | J | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241035

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (6-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-5SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14545

Sample wt/vol: 5 (g/mL) G Lab File ID: >14545

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.17 | 92. | |
| 2. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 26.77 | 18. | |
| 3. | 4453911 | 1,4-Methanonaphthalene, 1,4- | 27.26 | 9. | |
| 4. | 939275 | Naphthalene, 2-ethyl- (8C19C | 28.72 | 12. | |
| 5. | 569415 | Naphthalene, 1,8-dimethyl- ( | 28.88 | 52. | |
| 6. | 569415 | Naphthalene, 1,8-dimethyl- ( | 29.32 | 67. | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
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0241036

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (8-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-6SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4546D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4546D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: (pack/cap) CAP Dilution Factor: 1.000000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 500. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

0241037

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (8-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-6SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4546D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4546D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 25155151 | Benzene, methyl(1-methylethyl | 21.47 | 52. | |
| 2. | 2958761 | Naphthalene, decahydro-2-met | 22.00 | 49. | |
| 3. | 2050240 | Benzene, 1,3-diethyl-5-methyl | 22.81 | 100. | |
| 4. | 1750512 | Naphthalene, decahydro-1,6-di | 23.09 | 57. | |
| 5. | 535773 | Benzene, 1-methyl-3-(1-methyl | 23.25 | 150. | |
| 6. | 119642 | Naphthalene, 1,2,3,4-tetrahyl | 23.82 | 71. | |
| 7. | 2050240 | Benzene, 1,3-diethyl-5-methyl | 24.07 | 200. | |
| 8. | 100 | Naphthalene | 24.55 | 70. | |
| 9. | 5557937 | Benzene, 1-(1-methylethenyl)- | 25.20 | 100. | |
| 10. | 17057828 | 1H-Indene, 2,3-dihydro-1,2-di | 25.44 | 64. | |
| 11. | 4912929 | 1H-Indene, 2,3-dihydro-1,1-di | 25.81 | 130. | |
| 12. | 2809645 | Naphthalene, 1,2,3,4-tetrahyl | 25.93 | 69. | |
| 13. | 54340873 | 1H-Indene, 2,3-dihydro-1,4,7- | 26.29 | 110. | |
| 14. | 54340873 | 1H-Indene, 2,3-dihydro-1,4,7- | 26.54 | 64. | |
| 15. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.86 | 200. | |
| 16. | 25419394 | Naphthalene, 1,2,3,4-tetrahyl | 27.11 | 66. | |
| 17. | 90120 | Naphthalene, 1-methyl- (8CI9 | 27.31 | 150. | |
| 18. | 939275 | Naphthalene, 2-ethyl- (8CI9C | 28.77 | 66. | |
| 19. | 575417 | Naphthalene, 1,3-dimethyl- (8 | 28.89 | 190. | |
| 20. | 100 | Naphthalene | 29.33 | 220. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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0241038

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (12

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-8SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14548

Sample wt/vol: 5 (g/mL) G Lab File ID: >14548

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 2400. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 200. | J |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 300. | J |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 100. | J |

0241039

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (12

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-8SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >14548

Sample wt/vol: 5 (g/mL) G Lab File ID: >14548

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 16

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 47. | |
| 2. | | Unknown | 20.91 | 16. | |
| 3. | 1123406 | 2,6-Piperidinedione, 4,4-dim | 21.88 | 4. | |
| 4. | | Unknown | 22.33 | 4. | |
| 5. | 2131422 | Naphthalene, 1,4,6-trimethyl | 23.82 | 43. | |
| 6. | 96 | Naphthalene | 24.55 | 11. | |
| 7. | 2131422 | Naphthalene, 1,4,6-trimethyl | 25.40 | 8. | |
| 8. | 2131422 | Naphthalene, 1,4,6-trimethyl | 25.81 | 90. | |
| 9. | 5557937 | Benzene, 1-(1-methylethenyl) | 26.21 | 6. | |
| 10. | 91576 | Naphthalene, 2-methyl- (8CI9 | 26.78 | 42. | |
| 11. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.27 | 63. | |
| 12. | 5851445 | 1H-Benzimidazole, 2-butyl- ( | 27.80 | 5. | |
| 13. | 2131422 | Naphthalene, 1,4,6-trimethyl | 28.04 | 16. | |
| 14. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.69 | 52. | |
| 15. | 575439 | Naphthalene, 1,6-dimethyl- ( | 28.85 | 170. | |
| 16. | 100 | Naphthalene | 29.30 | 240. | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
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0241040

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (14

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: 891454-9SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >4549D

Sample wt/vol: 5 (g/mL) G  Lab File ID: >4549D

Level: (low/med) MED  Date Received: 10/30/89

% Moisture: not dec.1  Date Analyzed: 12/04/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 500. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

0241041

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
PERMIAW (14

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-9SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4549D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4549D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 120. | |
| 2. | | Unknown | 17.79 | 66. | |
| 3. | 535773 | Benzene, 1-methyl-3-(1-methy | 21.47 | 15. | |
| 4. | 535773 | Benzene, 1-methyl-3-(1-methy | 23.17 | 22. | |
| 5. | 622582 | Benzene, 1-isocyanato-4-meth | 23.74 | 17. | |
| 6. | 939231 | Pyridine, 4-phenyl- (8CI9CI) | 24.02 | 79. | |
| 7. | 7044920 | 1,4-Benzenedicarboxaldehyde, | 24.83 | 34. | |
| 8. | 17057828 | 1H-Indene, 2,3-dihydro-1,2-d | 25.40 | 14. | |
| 9. | 17057828 | 1H-Indene, 2,3-dihydro-1,2-d | 25.76 | 43. | |
| 10. | 40650417 | 1H-Indene, 2,3-dihydro-1,1,5 | 26.25 | 31. | |
| 11. | 54340851 | Benzene, 1-(2-butenyl)-2,3-d | 26.53 | 19. | |
| 12. | 22228279 | Cyclopropa[a]inden-6-ol, 1,1a | 26.86 | 23. | |
| 13. | 25419334 | Naphthalene, 1,2,3,4-tetrahy | 27.06 | 13. | |
| 14. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.30 | 38. | |
| 15. | 4175546 | Naphthalene, 1,2,3,4-tetrahy | 27.83 | 17. | |
| 16. | 2131422 | Naphthalene, 1,4,6-trimethyl | 28.19 | 37. | |
| 17. | 25419334 | Naphthalene, 1,2,3,4-tetrahy | 28.36 | 29. | |
| 18. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.72 | 23. | |
| 19. | 575417 | Naphthalene, 1,3-dimethyl- ( | 28.88 | 130. | |
| 20. | 100 | Naphthalene | 29.33 | 160. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
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0241042

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (16

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45410

Sample wt/vol: 5 (g/mL) G Lab File ID: >45410

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene Chloride | 1100. | B |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 200. | J |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 200. | J |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 100. | J |

0241043

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
PERMIAW (16

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45410

Sample wt/vol: 5 (g/mL) G Lab File ID: >45410

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/09/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 46. | |
| 2. | 110543 | Hexane (DDT)(8CI9CI) | 4.77 | 9. | |
| 3. | 64723360 | Cyclopropane, 1-(2-methylbut | 23.01 | 5. | |
| 4. | 2027170 | Naphthalene, 2-(1-methylethy | 23.78 | 5. | |
| 5. | 61142196 | Cyclohexane, (1,3-dimethylbu | 24.07 | 6. | |
| 6. | | Unknown | 24.79 | 5. | |
| 7. | 2131411 | Naphthalene, 1,4,5-trimethyl | 25.77 | 16. | |
| 8. | 17312833 | Undecane, 5,7-dimethyl- (8CI | 26.33 | 14. | |
| 9. | 2131422 | Naphthalene, 1,4,6-trimethyl | 27.06 | 31. | |
| 10. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.27 | 23. | |
| 11. | 17301303 | Undecane, 3,8-dimethyl- (8CI | 28.00 | 18. | |
| 12. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.77 | 17. | |
| 13. | 569415 | Naphthalene, 1,8-dimethyl- ( | 28.93 | 85. | |
| 14. | 575417 | Naphthalene, 1,3-dimethyl- ( | 29.37 | 120. | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
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0241044

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (18

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45411

Sample wt/vol: 5 (g/mL) G Lab File ID: >45411

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec. 1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 4. | JB | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | .1 | J | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 3. | J | |

0241045

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (18

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45411

Sample wt/vol: 5 (g/mL) G Lab File ID: >45411

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 26. | |
| 2. | | Unknown | 1.37 | 8. | |
| 3. | 17634514 | 1,3,5-Cycloheptatriene, 7-et | 18.40 | 9. | |
| 4. | 53771883 | Cyclopentane, 1-methyl-3-(1- | 19.29 | 6. | |
| 5. | 93550 | 1-Propanone, 1-phenyl- (9CI) | 20.55 | 12. | |
| 6. | 25155151 | Benzene, methyl(1-methylethyl | 21.48 | 8. | |
| 7. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.88 | 10. | |
| 8. | 294622 | Cyclododecane (8CI9CI) | 22.81 | 11. | |
| 9. | 6044719 | Dodecane, 6-methyl- (8CI9CI) | 23.06 | 10. | |
| 10. | 1758889 | Benzene, 2-ethyl-1,4-dimethyl | 23.22 | 12. | |
| 11. | 7367386 | 4-Nonene, 5-butyl- (8CI9CI) | 23.75 | 12. | |
| 12. | 18185814 | 3-Octen-1-ol (8CI9CI) | 24.11 | 26. | |
| 13. | | Unknown | 24.84 | 14. | |
| 14. | 4175546 | Naphthalene, 1,2,3,4-tetrahyl | 26.26 | 8. | |
| 15. | 4453901 | 1,4-Methanonaphthalene, 1,4- | 26.82 | 14. | |
| 16. | 13151989 | Cyclooctane, 1,4-dimethyl-, | 27.03 | 15. | |
| 17. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.31 | 21. | |
| 18. | 57674201 | Pyrazine, 2-chloro-3-(1-meth | 28.69 | 9. | |
| 19. | 575371 | Naphthalene, 1,7-dimethyl- ( | 28.89 | 23. | |
| 20. | 575417 | Naphthalene, 1,3-dimethyl- ( | 29.30 | 27. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241046

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (20

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45412

Sample wt/vol: 5 (g/mL) G Lab File ID: >45412

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 2. | JB | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241047

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
PERMIAW (20

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45412

Sample wt/vol: 5 (g/mL) G Lab File ID: >45412

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 67. | |
| 2. | | Unknown | 4.73 | 6. | |
| 3. | 112549 | Dodecanal (9CI) | 24.11 | 8. | |
| 4. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.26 | 6. | |
| 5. | 17312537 | Decane, 3,6-dimethyl- (8CI9C | 27.95 | 18. | |
| 6. | | Unknown | 28.72 | 10. | |
| 7. | 575371 | Naphthalene, 1,7-dimethyl- ( | 28.84 | 29. | |
| 8. | 569415 | Naphthalene, 1,8-dimethyl- ( | 29.29 | 42. | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241048

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (22

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45413

Sample wt/vol: 5 (g/mL) G Lab File ID: >45413

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 5. | U | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241049

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (22

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45413

Sample wt/vol: 5 (g/mL) G Lab File ID: >45413

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 50. | |
| 2. | 1640897 | Cyclopentane, ethyl- (8CI9CI | 21.88 | 8. | |
| 3. | 14850227 | 3-Octene, (Z)- (8CI9CI) | 24.11 | 9. | |
| 4. | | Unknown | 27.06 | 4. | |
| 5. | | Unknown | 28.88 | 4. | |
| 6. | | Unknown | 29.36 | 7. | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241050

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (24

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45414

Sample wt/vol: 5 (g/mL) G Lab File ID: >45414

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene Chloride | 5. | U | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m & p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241051

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (24

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45414

Sample wt/vol: 5 (g/mL) G Lab File ID: >45414

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 64. | |
| 2. | 5497676 | 4-Pentenal, 2,2-dimethyl- (8 | 24.11 | 6. | |
| 3. | 575417 | Naphthalene, 1,3-dimethyl- ( | 28.88 | 11. | |
| 4. | 575371 | Naphthalene, 1,7-dimethyl- ( | 29.28 | 13. | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241052

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (26

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45415

Sample wt/vol: 5 (g/mL) G Lab File ID: >45415

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 5. | U | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241053

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (26

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45415

Sample wt/vol: 5 (g/mL) G Lab File ID: >45415

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 59. | |
| 2. | | Unknown | 29.32 | 4. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
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| 30. | | | | | |

0241054

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (28

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45416

Sample wt/vol: 5 (g/mL) G Lab File ID: >45416

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene Chloride | 3. | JB | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241055

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (28

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45416

Sample wt/vol: 5 (g/mL) G Lab File ID: >45416

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 52. | |
| 2. | 592767 | 1-Heptene (8CI9CI) | 21.92 | 7. | |
| 3. | 18829555 | 2-Heptenal, (E)- (8CI9CI) | 24.11 | 7. | |
| 4. | | Unknown | 29.32 | 4. | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
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0241057

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (30

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45417

Sample wt/vol: 5 (g/mL) G Lab File ID: >45417

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs Found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 70. | |
| 2. | | Unknown | 28.88 | 4. | |
| 3. | | Unknown | 29.32 | 5. | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
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| 9. | | | | | |
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| 30. | | | | | |

0241056

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERMIAW (30

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45417

Sample wt/vol: 5 (g/mL) G Lab File ID: >45417

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene Chloride | 2. | JB | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m & p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241058

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (32

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45418

Sample wt/vol: 5 (g/mL) G Lab File ID: >45418

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 2. | JB | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241059

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (32

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45418

Sample wt/vol: 5 (g/mL) G Lab File ID: >45418

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 52. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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0241060

EPA SAMPLE NO.

PERMIAW (34

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45419

Sample wt/vol: 5 (g/mL) G Lab File ID: >45419

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U | |
| 74-83-9 | Bromomethane | 10. | U | |
| 75-01-4 | Vinyl Chloride | 10. | U | |
| 75-00-3 | Chloroethane | 10. | U | |
| 75-09-2 | Methylene_Chloride | 5. | U | |
| 67-64-1 | Acetone | 10. | U | |
| 75-15-0 | Carbon Disulfide | 5. | U | |
| 75-35-4 | 1,1-Dichloroethene | 5. | U | |
| 75-34-3 | 1,1-Dichloroethane | 5. | U | |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U | |
| 67-66-3 | Chloroform | 5. | U | |
| 107-02-2 | 1,2-Dichloroethane | 5. | U | |
| 78-93-3 | 2-Butanone | 10. | U | |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U | |
| 56-23-5 | Carbon Tetrachloride | 5. | U | |
| 108-05-4 | Vinyl Acetate | 10. | U | |
| 75-27-4 | Bromodichloromethane | 5. | U | |
| 78-87-5 | 1,2-Dichloropropane | 5. | U | |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U | |
| 79-01-6 | Trichloroethene | 5. | U | |
| 124-48-1 | Dibromochloromethane | 5. | U | |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U | |
| 71-43-2 | Benzene | 5. | U | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U | |
| 75-25-2 | Bromoform | 5. | U | |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U | |
| 591-78-6 | 2-Hexanone | 10. | U | |
| 127-18-4 | Tetrachloroethene | 5. | U | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U | |
| 108-88-3 | Toluene | 5. | U | |
| 108-90-7 | Chlorobenzene | 5. | U | |
| 133-02-7 | Xylene (m_&_p) | 5. | U | X |
| 100-41-4 | Ethylbenzene | 5. | U | |
| 100-42-5 | Styrene | 5. | U | |
| 133-02-7 | Xylene (total) | 5. | U | |

0241061

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (34

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-1SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >45419

Sample wt/vol: 5 (g/mL) G Lab File ID: >45419

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 11/10/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 56. | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
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0241062

EPA SAMPLE NO.

PERM SURF

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4541

Sample wt/vol: 1.1 (g/mL) G  Lab File ID: >C4541

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. 0.0  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 9000. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 9000. | U |
| 95-57-8 | 2-Chlorophenol | 9000. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9000. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9000. | U |
| 100-51-6 | Benzyl alcohol | 9000. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9000. | U |
| 95-48-7 | 2-Methylphenol | 9000. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 9000. | U |
| 106-44-5 | 4-Methylphenol | 9000. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 9000. | U |
| 67-72-1 | Hexachloroethane | 9000. | U |
| 98-95-3 | Nitrobenzene | 9000. | U |
| 78-59-1 | Isophorone | 9000. | U |
| 88-75-5 | 2-Nitrophenol | 9000. | U |
| 105-67-9 | 2,4-Dimethylphenol | 9000. | U |
| 65-85-0 | Benzoic acid | 45000. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 9000. | U |
| 120-83-2 | 2,4-Dichlorophenol | 9000. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9000. | U |
| 91-20-3 | Naphthalene | 9000. | U |
| 106-47-8 | 4-Chloroaniline | 9000. | U |
| 87-68-3 | Hexachlorobutadiene | 9000. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 9000. | U |
| 91-57-6 | 2-Methylnaphthalene | 9000. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 9000. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 9000. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 45000. | U |
| 91-58-7 | 2-Chloronaphthalene | 9000. | U |
| 88-74-4 | 2-Nitroaniline | 45000. | U |
| 131-11-3 | Dimethyl Phthalate | 9000. | U |
| 208-96-8 | Acenaphthylene | 9000. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 9000. | U |

0241063

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERM SURF

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: C4541

Sample wt/vol: 1.1 (g/mL) G Lab File ID: >C4541

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.0.1 dec. 0.0 Date Extracted:11/10/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 45000. | U |
| 83-32-9 | Acenaphthene | 9000. | U |
| 51-28-5 | 2,4-Dinitrophenol | 45000. | U |
| 100-02-7 | 4-Nitrophenol | 45000. | U |
| 132-64-9 | Dibenzofuran | 9000. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 9000. | U |
| 84-66-2 | Diethylphthalate | 9000. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 9000. | U |
| 86-73-7 | Fluorene | 9000. | U |
| 100-01-6 | 4-Nitroaniline | 45000. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 45000. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 9000. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 9000. | U |
| 118-74-1 | Hexachlorobenzene | 9000. | U |
| 87-86-5 | Pentachlorophenol | 45000. | U |
| 85-01-8 | Phenanthrene | 9000. | U |
| 120-12-7 | Anthracene | 9000. | U |
| 84-74-2 | Di-n-butylphthalate | 9000. | U |
| 206-44-0 | Fluoranthene | 9000. | U |
| 129-00-0 | Pyrene | 9000. | U |
| 85-68-7 | Butylbenzylphthalate | 9000. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 18000. | U |
| 56-55-3 | Benzo(a)anthracene | 9000. | U |
| 218-01-9 | Chrysene | 9000. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 9000. | U |
| 117-84-0 | Di-n-octyl_phthalate | 9000. | U |
| 205-99-2 | Benzo(b)fluoranthene | 9000. | U |
| 207-08-9 | Benzo(k)fluoranthene | 9000. | U |
| 50-32-8 | Benzo(a)pyrene | 9000. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 9000. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 9000. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 9000. | U |

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

0241064 | PERM SURF

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: C4541

Sample wt/vol: 1.1 (g/mL) G  Lab File ID: >C4541

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 0.1  dec. ----  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/06/89

GPC Cleanup: (Y/N) Y  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.59 | 210. | |
| 2. | 629505 | Tridecane (8CI9CI) | 20.10 | 100. | |
| 3. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.29 | 240. | |
| 4. | 54105667 | Cyclohexane, undecyl- (9CI) | 21.01 | 120. | |
| 5. | 569415 | Naphthalene, 1,8-dimethyl- ( | 22.33 | 420. | |
| 6. | 573988 | Naphthalene, 1,2-dimethyl- ( | 22.60 | 470. | |
| 7. | 575439 | Naphthalene, 1,6-dimethyl- ( | 22.65 | 130. | |
| 8. | 17312628 | Decane, 5-propyl- (8CI) | 22.98 | 470. | |
| 9. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.03 | 150. | |
| 10. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.39 | 340. | |
| 11. | 2245387 | Naphthalene, 1,6,7-trimethyl | 24.48 | 260. | |
| 12. | 2245387 | Naphthalene, 1,6,7-trimethyl | 24.75 | 350. | |
| 13. | 829265 | Naphthalene, 2,3,6-trimethyl | 25.04 | 150. | |
| 14. | 544763 | Hexadecane (8CI9CI) | 25.97 | 360. | |
| 15. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.84 | 520. | |
| 16. | 16587523 | Dibenzothiophene, 3-methyl- | 29.51 | 270. | |
| 17. | 7372885 | Dibenzothiophene, 4-methyl- | 29.78 | 200. | |
| 18. | 2531842 | Phenanthrene, 2-methyl- (8CI | 30.07 | 220. | |
| 19. | 613127 | Anthracene, 2-methyl- (8CI9C | 30.16 | 260. | |
| 20. | 16587341 | Naphtho[2,3-b]thiophene, 4,9 | 31.17 | 140. | |
| 21. | 781179 | Pyrene, 4,5,9,10-tetrahydro- | 31.66 | 170. | |
| 22. | 3674655 | Phenanthrene, 2,3-dimethyl- | 31.91 | 180. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |
| | | | | | |

0241065

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 2-19

Lab Name:CORE LAB Contract:-------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G Lab File ID: >B5421

Level: (low/med) LOW Date Received: 10/30/89

% Moisture: not dec.1.0 dec. 0.0 Date Extracted:11/10/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 660. | U |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 660. | U |
| 95-57-8 | 2-Chlorophenol | 660. | U |
| 541-73-1 | 1,3-Dichlorobenzene | 660. | U |
| 106-46-7 | 1,4-Dichlorobenzene | 660. | U |
| 100-51-6 | Benzyl alcohol | 660. | U |
| 95-50-1 | 1,2-Dichlorobenzene | 660. | U |
| 95-48-7 | 2-Methylphenol | 660. | U |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 660. | U |
| 106-44-5 | 4-Methylphenol | 660. | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 660. | U |
| 67-72-1 | Hexachloroethane | 660. | U |
| 98-95-3 | Nitrobenzene | 660. | U |
| 78-59-1 | Isophorone | 660. | U |
| 88-75-5 | 2-Nitrophenol | 660. | U |
| 105-67-9 | 2,4-Dimethylphenol | 660. | U |
| 65-85-0 | Benzoic acid | 3300. | U |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 660. | U |
| 120-83-2 | 2,4-Dichlorophenol | 660. | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 660. | U |
| 91-20-3 | Naphthalene | 660. | U |
| 106-47-8 | 4-Chloroaniline | 660. | U |
| 87-68-3 | Hexachlorobutadiene | 660. | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 660. | U |
| 91-57-6 | 2-Methylnaphthalene | 660. | U |
| 77-47-4 | Hexachlorocyclopentadiene | 660. | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 660. | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 3300. | U |
| 91-58-7 | 2-Chloronaphthalene | 660. | U |
| 88-74-4 | 2-Nitroaniline | 3300. | U |
| 131-11-3 | Dimethyl Phthalate | 660. | U |
| 208-96-8 | Acenaphthylene | 660. | U |
| 606-20-2 | 2,6-Dinitrotoluene | 660. | U |

0241066

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 2-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B5421

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. 0.0  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 3300. | U |
| 83-32-9 | Acenaphthene | 660. | U |
| 51-28-5 | 2,4-Dinitrophenol | 3300. | U |
| 100-02-7 | 4-Nitrophenol | 3300. | U |
| 132-64-9 | Dibenzofuran | 660. | U |
| 121-14-2 | 2,4-Dinitrotoluene | 660. | U |
| 84-66-2 | Diethylphthalate | 660. | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 660. | U |
| 86-73-7 | Fluorene | 660. | U |
| 100-01-6 | 4-Nitroaniline | 3300. | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3300. | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 660. | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 660. | U |
| 118-74-1 | Hexachlorobenzene | 660. | U |
| 87-86-5 | Pentachlorophenol | 3300. | U |
| 85-01-8 | Phenanthrene | 660. | U |
| 120-12-7 | Anthracene | 660. | U |
| 84-74-2 | Di-n-butylphthalate | 660. | U |
| 206-44-0 | Fluoranthene | 660. | U |
| 129-00-0 | Pyrene | 660. | U |
| 85-68-7 | Butylbenzylphthalate | 660. | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1300. | U |
| 56-55-3 | Benzo(a)anthracene | 660. | U |
| 218-01-9 | Chrysene | 660. | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 660. | U |
| 117-84-0 | Di-n-octyl phthalate | 660. | U |
| 205-99-2 | Benzo(b)fluoranthene | 660. | U |
| 207-08-9 | Benzo(k)fluoranthene | 660. | U |
| 50-32-8 | Benzo(a)pyrene | 660. | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 660. | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 660. | U |
| 191-24-2 | Benzo(g,h,i)perylene | 660. | U |

(1) - Cannot be separated from Diphenylamine

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0241067 COMP 2-19

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5421

Sample wt/vol: 15.0 (g/mL) G  Lab File ID: >B5421

Level: (low/med) LOW  Date Received: 10/30/89

% Moisture: not dec. 1.0  dec. ----  Date Extracted: 11/10/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/01/89

GPC Cleanup: (Y/N) Y  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 22  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 13757910 | 2-Heptanone, 3-hydroxy-3-met | 9.88 | 190. | |
| No hits for scan 48. of File >B5421 | | | | | |
| 3. | 1515760 | 1,3-Butadien-1-ol, acetate ( | 12.61 | 8. | |
| 4. | 26730143 | Tridecane, 7-methyl- (8CI9CI | 19.55 | 10. | |
| 5. | 90120 | Naphthalene, 1-methyl- (8CI9 | 20.59 | 8. | |
| 6. | 1678928 | Cyclohexane, propyl- (8CI9CI | 20.98 | 7. | |
| 7. | 56292650 | Dodecane, 2,5-dimethyl- (9CI | 21.87 | 8. | |
| 8. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 22.08 | 15. | |
| 9. | 575371 | Naphthalene, 1,7-dimethyl- ( | 22.28 | 29. | |
| 10. | 575371 | Naphthalene, 1,7-dimethyl- ( | 22.55 | 31. | |
| 11. | 581420 | Naphthalene, 2,6-dimethyl- ( | 22.62 | 17. | |
| 12. | 87854 | Benzene, hexamethyl- (8CI9CI | 22.70 | 9. | |
| 13. | 5881174 | Octane, 3-ethyl- (8CI9CI) | 22.95 | 35. | |
| 14. | 571584 | Naphthalene, 1,4-dimethyl- ( | 23.20 | 7. | |
| 15. | 2131422 | Naphthalene, 1,4,6-trimethyl | 23.99 | 15. | |
| 16. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.35 | 24. | |
| 17. | 2131422 | Naphthalene, 1,4,6-trimethyl | 24.44 | 19. | |
| 18. | 2027170 | Naphthalene, 2-(1-methylethy | 24.71 | 10. | |
| 19. | 829265 | Naphthalene, 2,3,6-trimethyl | 24.99 | 11. | |
| 20. | 17312537 | Decane, 3,6-dimethyl- (8CI9C | 25.94 | 24. | |
| 21. | 629787 | Heptadecane (8CI9CI) | 26.70 | 7. | |
| 22. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.79 | 21. | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
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0241068

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB1 (COMP)0-16

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-81

Level (low/med): LOW Date Received: 5/26/89

% Solids: 96.73%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 1.3 | | | F |
| 7440-39-3 | Barium | 63 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 3 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 3.0 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.1 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0241069

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

PERB1 (COMP.)16-23

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-82

Level (low/med): LOW Date Received: 5/26/89

% Solids: 98.23%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 1.1 | | | F |
| 7440-39-3 | Barium | 13 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 2 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 2.0 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.1 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |
| | | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0241070

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

XXXX SAMPLE NO.

PERB1 (COMP.)28-32

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 890662-83

Level (low/med): LOW Date Received: 5/26/89

% Solids: 97.60%

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 1.6 | | | F |
| 7440-39-3 | Barium | 12 | | | P |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 6 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 2.4 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | 0.1 | U | | F |
| 7440-22-4 | Silver | 0.3 | U | | P |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | | | | |
| | Cyanide | | | | |

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

0241071

SIVALLS

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SIVB-1 0'-2

Lab Name: CORE LABORATORIES Contract: 0241072

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-21

Sample wt/vol: 5 (g/mL) G Lab File ID: >66221

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 3. | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 2. | J |



MS data file header from : >66221

Sample: 890662-21 D & M Operator: USER8 MS 5/31/89 10:40

Misc : SOIL,ENR,UCL

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-1 2'-4

Lab Name: CORE LABORATORIES  Contract: 0241073

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-22

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66222

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .5 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66222

Sample: 890662-22 D & M  Operator: USER8  MS  5/31/89 11:16

Misc. : SOIL CAP HCL

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-1 4'-6

Lab Name: CORE LABORATORIES Contract: 0241074

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-23

Sample wt/vol: 5 (g/mL) G Lab File ID: >66223

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 1. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66223

Sample: 890662-23 D & M Operator: USER8 MS 5/31/89 17:00

Misc. : SOIL FOR VGI

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241075 | SIVB-1 6'-8

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-24

Sample wt/vol: 5 (g/mL) G Lab File ID: >66224

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 2. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241076 | SIVB-1 8'-1

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-25

Sample wt/vol: 5 (g/mL) G Lab File ID: >66225

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241077 | SIVB-1 10'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-26

Sample wt/vol: 5 (g/mL) G Lab File ID: >66226

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .5 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241078

SIVB-1 12'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-27

Sample wt/vol: 5 (g/mL) G Lab File ID: >66227

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66227

Sample: 890662-27 D & M Operator: USER8 MS 5/31/89 14:28

Misc. : SOIL FOR VCL

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241079 | SIVB-1 14'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-28

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66228

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .3 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66228

Sample: 890662-28 D & M  Operator: USER8  MS  5/31/89 15:06

M:\... . SOIL FOR USL

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241080 | SIVB-1 16'- |

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-29

Sample wt/vol: 5 (g/mL) G Lab File ID: >66229

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66229

Sample: 890662-29 D & M Operator: USER8 MS 5/31/89 15:44

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0241081

SIVB-1 18'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-30

Sample wt/vol: 5 (g/mL) G Lab File ID: >66230

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66230

Sample: 890662-30 D & M Operator: USER8 MS 5/31/89 17:38

Misc. : SOIL FOR VOA

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241082

SIVB-1 20'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-31

Sample wt/vol: 5 (g/mL) G Lab File ID: >66231

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .3 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

FORM I VOA 1/87 Rev.

MS data file header from : >66231

Sample: 890662-31 D & M Operator: USER8 MS 5/31/89 18:16

Misc. : SOIL FOR VOA

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SIVB-1 22'-

Lab Name: CORE LABORATORIES  Contract: 0241083

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-32

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66232

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .3 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66232

Sample: 890662-32 D & M  Operator: USER8  MS  5/31/89 18:54

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SIVB-1 24'-

Lab Name: CORE LABORATORIES Contract: 0241084

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-33

Sample wt/vol: 5 (g/mL) G Lab File ID: >66233

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .3 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66233

Sample: 890662-33 D & M Operator: USER8 MS 5/31/89 19:32

Misc. : SOIL FOR VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241085

SIVB-1 26'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-34

Sample wt/vol: 5 (g/mL) G Lab File ID: >66234

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .3 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66234

Sample: 890662-34 D & M Operator: USER8 MS 5/31/89 20:11

M:\... : SOIL.FOR HP1

0241086

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PERMIAW (10

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-7SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4547D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4547D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 1000. | U |
| 74-83-9 | Bromomethane | 1000. | U |
| 75-01-4 | Vinyl Chloride | 1000. | U |
| 75-00-3 | Chloroethane | 1000. | U |
| 75-09-2 | Methylene_Chloride | 500. | U |
| 67-64-1 | Acetone | 1000. | U |
| 75-15-0 | Carbon Disulfide | 500. | U |
| 75-35-4 | 1,1-Dichloroethene | 500. | U |
| 75-34-3 | 1,1-Dichloroethane | 500. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 500. | U |
| 67-66-3 | Chloroform | 500. | U |
| 107-02-2 | 1,2-Dichloroethane | 500. | U |
| 78-93-3 | 2-Butanone | 1000. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500. | U |
| 56-23-5 | Carbon Tetrachloride | 500. | U |
| 108-05-4 | Vinyl Acetate | 1000. | U |
| 75-27-4 | Bromodichloromethane | 500. | U |
| 78-87-5 | 1,2-Dichloropropane | 500. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 500. | U |
| 79-01-6 | Trichloroethene | 500. | U |
| 124-48-1 | Dibromochloromethane | 500. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 500. | U |
| 71-43-2 | Benzene | 500. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 500. | U |
| 75-25-2 | Bromoform | 500. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1000. | U |
| 591-78-6 | 2-Hexanone | 1000. | U |
| 127-18-4 | Tetrachloroethene | 500. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 500. | U |
| 108-88-3 | Toluene | 500. | U |
| 108-90-7 | Chlorobenzene | 500. | U |
| 100-41-4 | Ethylbenzene | 500. | U |
| 100-42-5 | Styrene | 500. | U |
| 133-02-7 | Xylene (total) | 500. | U |

0241087

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PERMIAW (10

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: 891454-7SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >4547D

Sample wt/vol: 5 (g/mL) G Lab File ID: >4547D

Level: (low/med) MED Date Received: 10/30/89

% Moisture: not dec.1 Date Analyzed: 12/04/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.09 | 74. | |
| 2. | 15232856 | Cyclohexene, 1-pentyl- (8CI9 | 21.95 | 13. | |
| 3. | 25155151 | Benzene, methyl(1-methylethy | 23.25 | 7. | |
| 4. | 621294 | Benzene, 1-isocyanato-3-meth | 23.77 | 7. | |
| 5. | 4431894 | Cyclohexane, (cyclopentylmet | 24.10 | 23. | |
| 6. | 877441 | Benzene, 1,2,4-triethyl- (8C | 24.50 | 10. | |
| 7. | 5557937 | Benzene, 1-(1-methylethenyl) | 25.15 | 9. | |
| 8. | 17057828 | 1H-Indene, 2,3-dihydro-1,2-d | 25.39 | 9. | |
| 9. | 2131422 | Naphthalene, 1,4,6-trimethyl | 25.76 | 41. | |
| 10. | 769255 | Benzene, 2-ethenyl-1,3,5-tri | 25.92 | 6. | |
| 11. | 40650417 | 1H-Indene, 2,3-dihydro-1,1,5 | 26.24 | 34. | |
| 12. | 5557937 | Benzene, 1-(1-methylethenyl) | 26.49 | 21. | |
| 13. | 147 | Phenol, 4-chloro-3-methyl- | 26.85 | 85. | |
| 14. | 50704013 | Benzene, (1,3-dimethyl-2-but | 27.05 | 13. | |
| 15. | 2471832 | 1H-Indene, 1-ethylidene- (9C | 27.30 | 54. | |
| 16. | 21693550 | Naphthalene, 1,2,3,4-tetrahy | 27.86 | 19. | |
| 17. | 6682060 | 1H-Indene, 2,3-dihydro-4,5,7 | 28.39 | 39. | |
| 18. | 1127760 | Naphthalene, 1-ethyl- (8CI9C | 28.76 | 99. | |
| 19. | 575417 | Naphthalene, 1,3-dimethyl- ( | 28.92 | 330. | |
| 20. | 100 | Naphthalene | 29.36 | 470. | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241088 | SIVB-1 28'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-35

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66235

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66235

Sample: 890662-35 D&M  Operator: USER8  MS  5/31/89 9:55

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SIVB-1 30'-

Lab Name: CORE LABORATORIES  Contract: 0241089

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-36

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66236

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .6 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66236

Sample: 890662-36 D&M  Operator: USER8  MS  5/31/89 10:33

M:\... : SOIL FOR HCL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241090 | SIVB-1 0'-2' MS

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-37

Sample wt/vol: 5 (g/mL) G Lab File ID: >66237

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 81. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 55. | |



MS data file header from : >66237

Sample: 890662-37 D&M Operator: USER8 MS 5/31/89 11:26

-- : SOIL FOR VOC

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241091 | SIVB-1 0'-2' MSD

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-38

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66238

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 12. | B |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 9. | |



MS data file header from : >66238

Sample: 890662-38 D&M  Operator: USER8  MS  5/31/89 12:03

Misc. : SOIL FOR VOC

1M

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241092 | TRIP BLANK

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) WATER  Lab Sample ID: 662-39

Sample wt/vol: 5 (g/mL) ML  Lab File ID: >66239

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66239

Sample: 890662-39 D&M  Operator: USER8  MS  5/31/89 12:40

Misc. : WATER FOR VOA

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 0'-2

Lab Name: CORE LABORATORIES Contract: 0241093

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-42

Sample wt/vol: 5 (g/mL) G Lab File ID: >66242

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66242

Sample: 890662-42 D&M Operator: USER8 MS 5/31/89 13:17

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 2'-4

Lab Name: CORE LABORATORIES  Contract: 0241094

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-43

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66243

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .5 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66243

Sample: 890662-43 D&M  Operator: USER8  MS  5/31/89 13:54

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0241095 | SIVB-2 4'-6

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-44

Sample wt/vol: 5 (g/mL) G Lab File ID: >66244

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66244

Sample: 890662-44 D&M Operator: USER8 MS 5/31/89 14:30

Misc : SOIL FOR VCL

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SIVB-2 6'-8

Lab Name: CORE LABORATORIES Contract: 0241096

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-45

Sample wt/vol: 5 (g/mL) G Lab File ID: >66245

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 3. | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66245

Sample: 890662-45 D&M Operator: USER8 MS 5/31/89 15:07

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241097 | SIVB-2 8'-1

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-46

Sample wt/vol: 5 (g/mL) G Lab File ID: >66246

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 4. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66246

Sample: 890662-46 D&M Operator: USER8 MS 5/31/89 15:44

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 10'-

Lab Name: CORE LABORATORIES Contract: 0241098

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-47

Sample wt/vol: 5 (g/mL) G Lab File ID: >66247

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .6 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66247

Sample: 890662-47 D&M Operator: USER8 MS 5/31/89 17:22

Misc. : SOIL, FOR HCL

EPA

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241099 | SIVB-2 12'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-48

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66248

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 14'-

Lab Name: CORE LABORATORIES  Contract: 0241100

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-49

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66249

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66249

Sample: 890662-49 D&M  Operator: USER8  MS  5/31/89 18:35

Misc. : SOIL FOR VCL

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241101 SIVB-2 16'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-50

Sample wt/vol: 5 (g/mL) G Lab File ID: >66250

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66250

Sample: 890662-50 D&M Operator: USER8 MS 5/31/89 19:11

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

0241102 | SIVB-2 18'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-51

Sample wt/vol: 5 (g/mL) G Lab File ID: >66251

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 5/31/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66251

Sample: 890662-51 D&M Operator: USER8 MS 5/31/89 19:48

1M

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241103 | SIVB-2 22'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-52

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66252

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .4 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66252

Sample: 890662-52 D&M  Operator: USER8  MS  5/31/89 20:25

M:\... . SOIL ... ...

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

0241104 | SIVB-2 24'-

Lab Name: CORE LABORATORIES  Contract: _____

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-53

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66253

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .7 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66253

Sample: 890662-53 D&M  Operator: USER8  MS  5/31/89 21:02

Misc. : SOIL FOR VOA

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 26'-

Lab Name: CORE LABORATORIES  Contract: 0241105

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-54

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66254

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 3. | JB |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .7 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66254

Sample: 890662-54 D&M  Operator: USER8  MS  5/31/89 21:38

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SIVB-2 30'-

Lab Name: CORE LABORATORIES  Contract: 0241106

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-55

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66255

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66255

Sample: 890662-55 D&M  Operator: USER8  MS  5/31/89 22:15

1M

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241107 | SIVB-2 6'-8 MS

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-56

Sample wt/vol: 5 (g/mL) G Lab File ID: >66256

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 6. | B |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 1. | J |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | .7 | JB |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66256

Sample: 890662-56 O & G Operator: USER8 MS 6/02/89 9:46

Matrix: SOIL FOR MS/

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0241108 | SIVB-2 6'-8 MSD

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-57

Sample wt/vol: 5 (g/mL) G Lab File ID: >66257

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66257

Sample: 890662-57 D & G Operator: USER8 MS 6/02/89 10:22

Matrix: SOIL CAP HCL

1H

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SIVB-2 20'-

Lab Name: CORE LABORATORIES  Contract: 0241109

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-58

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66258

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec.1  Date Analyzed: 6/02/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66258

Sample: 890662-58 0 & G  Operator: USER8  MS  6/02/89 11:01

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SIVB-2 20'-

Lab Name: CORE LABORATORIES Contract: 0241110

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-58

Sample wt/vol: 5 (g/mL) G Lab File ID: >66258

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec.1 Date Analyzed: 6/02/89

Column: (pack/cap) CAP Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66258

Sample: 890662-58 0 & G Operator: USER8 MS 6/02/89 11:01

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: SIVB-2 20'-

Lab Name: CORE LABORATORIES  Contract: 0241111

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-58

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66258

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 6/02/89

Column: CAP  Dilution Factor: 1.00000

Number TICs found: 8  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.01 | 5. | |
| 2. | | Unknown | 1.09 | 34. | |
| 3. | | Unknown | 4.28 | 5. | |
| 4. | 110543 | Hexane (DOT)(8CI9CI) | 4.81 | 13. | |
| 5. | 107017 | 2-Butene (8CI9CI) | 21.72 | 5. | |
| 6. | 19812647 | 1,14-Tetradecanediol (8CI9CI | 23.90 | 15. | |
| 7. | | Unknown | 24.27 | 13. | |
| 8. | | Unknown | 29.04 | 17. | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
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QUANT REPORT

0241112

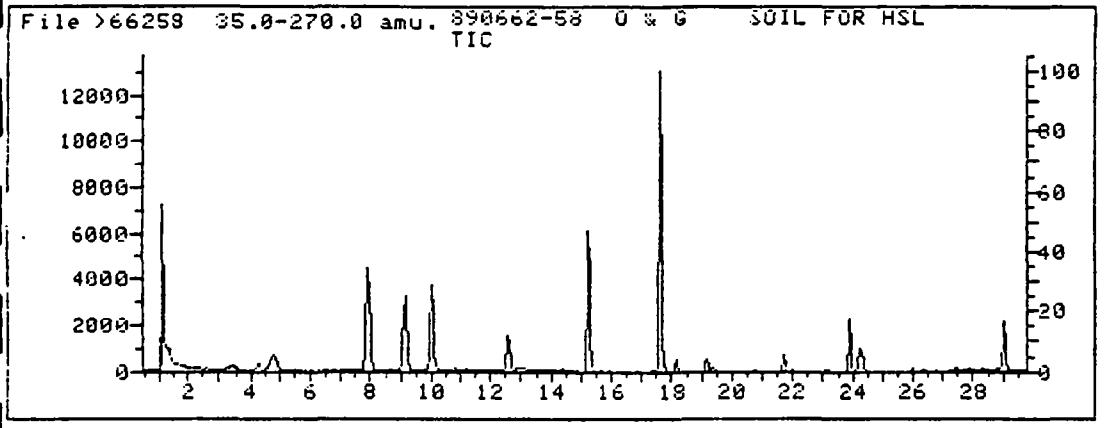
Operator ID: USER8 Quant Rev: 6 Quant Time: 890602 11:31
Output File: ^66258::BD Injected at: 890602 11:01
Data File: >66258::D7 Dilution Factor: 1.00000
"ame: 890662-58 O & G
.isc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.92 | 187 | 7501 | 50.00 | UG/L | 92 |
| 13) | 1,2-Dichloroethane-d4 | 9.14 | 217 | 10263 | 54.58 | UG/L | 99 |
| 15) | *1,4-Difluorobenzene | 10.03 | 239 | 16154 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.25 | 368 | 14961 | 50.00 | UG/L | 98 |
| 34) | Toluene d-8 | 12.58 | 302 | 4437 | 43.63 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.63 | 427 | 14819 | 60.50 | UG/L | 92 |

* Compound is ISTD

:



EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

SIVB-2 30'-

Lab Name: CORE LABORATORIES  Contract: 0241113

Lab Code: _____  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: 662-55

Sample wt/vol: 5 (g/mL) G  Lab File ID: >66255

Level: (low/med) LOW  Date Received: 05/26/89

% Moisture: not dec. 1  Date Analyzed: 5/31/89

Column: (pack/cap) CAP  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10. | U |
| 74-83-9 | Bromomethane | 10. | U |
| 75-01-4 | Vinyl Chloride | 10. | U |
| 75-00-3 | Chloroethane | 10. | U |
| 75-09-2 | Methylene_Chloride | 5. | U |
| 67-64-1 | Acetone | 10. | U |
| 75-15-0 | Carbon Disulfide | 5. | U |
| 75-35-4 | 1,1-Dichloroethene | 5. | U |
| 75-34-3 | 1,1-Dichloroethane | 5. | U |
| 540-59-0 | 1,2-Dichloroethene_(total) | 5. | U |
| 67-66-3 | Chloroform | 5. | U |
| 107-02-2 | 1,2-Dichloroethane | 5. | U |
| 78-93-3 | 2-Butanone | 10. | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5. | U |
| 56-23-5 | Carbon Tetrachloride | 5. | U |
| 108-05-4 | Vinyl Acetate | 10. | U |
| 75-27-4 | Bromodichloromethane | 5. | U |
| 78-87-5 | 1,2-Dichloropropane | 5. | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5. | U |
| 79-01-6 | Trichloroethene | 5. | U |
| 124-48-1 | Dibromochloromethane | 5. | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5. | U |
| 71-43-2 | Benzene | 5. | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5. | U |
| 75-25-2 | Bromoform | 5. | U |
| 108-10-1 | 4-Methyl-2-pentanone | 10. | U |
| 591-78-6 | 2-Hexanone | 10. | U |
| 127-18-4 | Tetrachloroethene | 5. | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5. | U |
| 108-88-3 | Toluene | 5. | U |
| 108-90-7 | Chlorobenzene | 5. | U |
| 100-41-4 | Ethylbenzene | 5. | U |
| 100-42-5 | Styrene | 5. | U |
| 133-02-7 | Xylene (total) | 5. | U |



MS data file header from : >66255

Sample: 890662-55 D&M  Operator: USER8  MS  5/31/89 22:15

IE

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0241114 SIVB-2 30'-

Lab Name: CORE LABORATORIES Contract: _____

Lab Code: _____ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: 662-55

Sample wt/vol: 5 (g/mL) G Lab File ID: >66255

Level: (low/med) LOW Date Received: 05/26/89

% Moisture: not dec. 1 Date Analyzed: 5/31/89

Column: CAP Dilution Factor: 1.00000

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 1.29 | 18. | |
| 2. | 110543 | Hexane (DOT)(8CI9CI) | 4.73 | 30. | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
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| 30. | | | | | |

QUANT REPORT 0241115

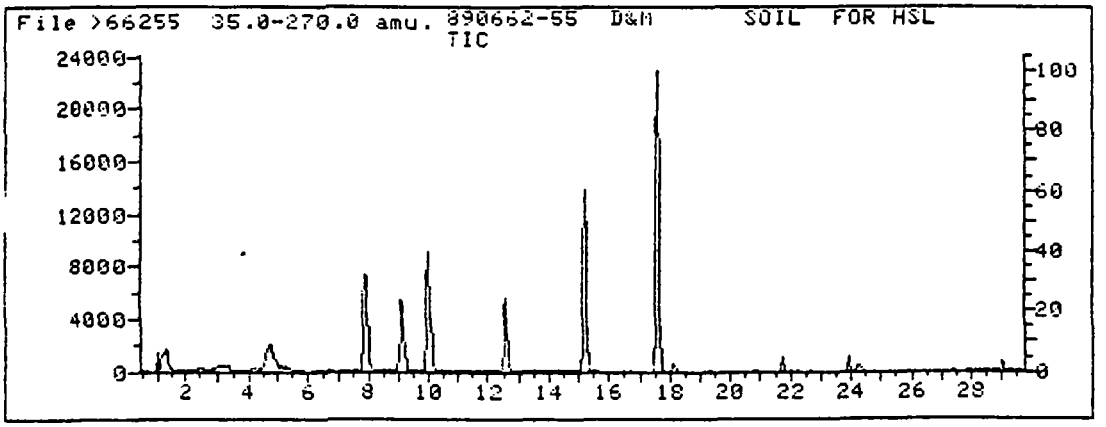
Operator ID: USER8 Quant Rev: 6 Quant Time: 890531 22:46
Output File: ^66255::BD Injected at: 890531 22:15
Data File: >66255::D7 Dilution Factor: 1.00000
Name: 890662-55 D&M
Misc: SOIL FOR HSL

ID File: IDHSL::BD
Title: HSL VOA-VOLATILE COMPOUNDS
Last Calibration: 890531 08:30

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|---|---|---|---|---|---|---|---|
| 1) | *Bromochloromethane | 7.88 | 186 | 13130 | 50.00 | UG/L | 90 |
| 13) | 1,2-Dichloroethane-d4 | 9.10 | 216 | 18474 | 56.13 | UG/L | 97 |
| 15) | *1,4-Difluorobenzene | 9.99 | 238 | 39256 | 50.00 | UG/L | 96 |
| 29) | *Chlorobenzene-d5 | 15.21 | 367 | 30614 | 50.00 | UG/L | 97 |
| 34) | Toluene d-8 | 12.58 | 302 | 16127 | 53.62 | UG/L | 99 |
| 39) | Bromofluorobenzene | 17.59 | 426 | 26999 | 57.23 | UG/L | 91 |

* Compound is ISTD

:



0241116

Western Atlas International
A Litton/Dresser Company

# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890927 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/09/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-8 (EAST-SOUTH SIDE 38'-40')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Stodel Virginia R. Bleich

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# CORE LABORATORIES

1250 East Pacifico, Anaheim, California 92805, (714) 937-1094

**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

## L A B O R A T O R Y  T E S T S  R E S U L T S
11/28/89

**JOB NUMBER:** 890927 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/09/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-9 (MIDDLE EAST 38'-40')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (50) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Strdaf Virginia R. Beech

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# CORE LABORATORIES

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/28/89

**JOB NUMBER:** 890927 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/19/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-9 (MIDDLE-EAST 38'-40')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Stodel Virginia R. Black

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CUSTOMER: O'BRIEN & GERE ATTN: MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

JOB NUMBER: 890928 DATE RECEIVED: 11/13/89 SAMPLE DATE: 11/10/89

PROJECT: O'BRIEN & GERE-BROOKHURST SAMPLE ID: SIB-10 (NORTH-SIDE EAST)

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | 5 (2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Shadoff Virginia R. Bleich

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# CORE LABORATORIES

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890928 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/10/89

**PROJECT:**O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-10 (NORTH-SIDE EAST)

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/l |
| Chlorobenzene | 5 (2.5) | ug/l |
| Ethylbenzene | ND(2.5) | ug/l |
| 1,2-Dichlorobenzene | ND(2.5) | ug/l |
| 1,3-Dichlorobenzene | ND(2.5) | ug/l |
| 1,4-Dichlorobenzene | ND(2.5) | ug/l |
| Toluene | ND(2.5) | ug/l |
| Total Xylenes | ND(2.5) | ug/l |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary Chadel Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890928 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/10/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-11(NORTH SIDE - WEST)

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND (5) | ug/kg |
| Chlorobenzene | ND (5) | ug/kg |
| Ethylbenzene | 190 (5) | ug/kg |
| 1,2-Dichlorobenzene | ND (5) | ug/kg |
| 1,3-Dichlorobenzene | ND (5) | ug/kg |
| 1,4-Dichlorobenzene | ND (5) | ug/kg |
| Toluene | 320 (5) | ug/kg |
| Total Xylenes | 660 (5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Hindel Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890928 **DATE RECEIVED:** 11/13/89 **SAMPLE DATE:** 11/10/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-11 (NORTH SIDE WEST)

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND (5) | ug/kg |
| Bromoform | ND (5) | ug/kg |
| Carbon tetrachloride | ND (5) | ug/kg |
| Chlorobenzene | ND (5) | ug/kg |
| Chloroform | ND (5) | ug/kg |
| Dibromochloromethane | ND (5) | ug/kg |
| 1,2-Dichlorobenzene | ND (5) | ug/kg |
| 1,3-Dichlorobenzene | ND (5) | ug/kg |
| 1,4-Dichlorobenzene | ND (5) | ug/kg |
| Dichlorodifluoromethane | ND (50) | ug/kg |
| 1,1-Dichloroethane | ND (5) | ug/kg |
| 1,2-Dichloroethane | ND (5) | ug/kg |
| 1,1-Dichloroethene | ND (5) | ug/kg |
| trans-1,2-Dichloroethene | ND (5) | ug/kg |
| 1,2-Dichloropropane | ND (5) | ug/kg |
| cis-1,3-Dichloropropene | ND (5) | ug/kg |
| trans-1,3-Dichloropropene | ND (5) | ug/kg |
| Methylene chloride | ND (5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND (5) | ug/kg |
| Tetrachloroethene | ND (5) | ug/kg |
| 1,1,1-Trichloroethane | ND (5) | ug/kg |
| 1,1,2-Trichloroethane | ND (5) | ug/kg |
| Trichloroethene | ND (5) | ug/kg |
| Trichlorofluoromethane | ND (50) | ug/kg |
| Bromomethane | ND (50) | ug/kg |
| Chloroethane | ND (50) | ug/kg |
| Chloromethane | ND (50) | ug/kg |
| Vinyl chloride | ND (50) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C. Stoddard Virginia R. Bleich

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# CORE LABORATORIES

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890934 **DATE RECEIVED:** 11/14/89 **SAMPLE DATE:** 11/11/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-12 WESTSIDE TO THE NORTH (36'-38')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND (5) | ug/kg |
| Bromoform | ND (5) | ug/kg |
| Carbon tetrachloride | ND (5) | ug/kg |
| Chlorobenzene | ND (5) | ug/kg |
| Chloroform | ND (5) | ug/kg |
| Dibromochloromethane | ND (5) | ug/kg |
| 1,2-Dichlorobenzene | ND (5) | ug/kg |
| 1,3-Dichlorobenzene | ND (5) | ug/kg |
| 1,4-Dichlorobenzene | ND (5) | ug/kg |
| Dichlorodifluoromethane | ND (50) | ug/kg |
| 1,1-Dichloroethane | ND (5) | ug/kg |
| 1,2-Dichloroethane | ND (5) | ug/kg |
| 1,1-Dichloroethene | ND (5) | ug/kg |
| trans-1,2-Dichloroethene | ND (5) | ug/kg |
| 1,2-Dichloropropane | ND (5) | ug/kg |
| cis-1,3-Dichloropropene | ND (5) | ug/kg |
| trans-1,3-Dichloropropene | ND (5) | ug/kg |
| Methylene chloride | ND (5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND (5) | ug/kg |
| Tetrachloroethene | ND (5) | ug/kg |
| 1,1,1-Trichloroethane | ND (5) | ug/kg |
| 1,1,2-Trichloroethane | ND (5) | ug/kg |
| Trichloroethene | ND (5) | ug/kg |
| Trichlorofluoromethane | ND (50) | ug/kg |
| Bromomethane | ND (50) | ug/kg |
| Chloroethane | ND (50) | ug/kg |
| Chloromethane | ND (50) | ug/kg |
| Vinyl chloride | ND (50) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Strobel Virginia R. Beech

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# CORE LABORATORIES

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890934 **DATE RECEIVED:** 11/14/89 **SAMPLE DATE:** 11/11/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-12 WESTSIDE TO THE NORTH (36'-38')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND (5) | ug/kg |
| Chlorobenzene | ND (5) | ug/kg |
| Ethylbenzene | 440 (5) | ug/kg |
| 1,2-Dichlorobenzene | ND (5) | ug/kg |
| 1,3-Dichlorobenzene | ND (5) | ug/kg |
| 1,4-Dichlorobenzene | ND (5) | ug/kg |
| Toluene | 640 (5) | ug/kg |
| Total Xylenes | 1700(5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Hoff Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

## L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890934 **DATE RECEIVED:** 11/14/89 **SAMPLE DATE:** 11/11/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-13 WESTSIDE TO THE SOUTH (34'-36')

## EPA 601/8010 PURGEABLE HALOCARBONS

| Compound | Concentration | Units |
|---|---|---|
| Bromodichloromethane | ND(2.5) | ug/kg |
| Bromoform | ND(2.5) | ug/kg |
| Carbon tetrachloride | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Chloroform | ND(2.5) | ug/kg |
| Dibromochloromethane | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Dichlorodifluoromethane | ND (25) | ug/kg |
| 1,1-Dichloroethane | ND(2.5) | ug/kg |
| 1,2-Dichloroethane | ND(2.5) | ug/kg |
| 1,1-Dichloroethene | ND(2.5) | ug/kg |
| trans-1,2-Dichloroethene | ND(2.5) | ug/kg |
| 1,2-Dichloropropane | ND(2.5) | ug/kg |
| cis-1,3-Dichloropropene | ND(2.5) | ug/kg |
| trans-1,3-Dichloropropene | ND(2.5) | ug/kg |
| Methylene chloride | ND(2.5) | ug/kg |
| 1,1,2,2-Tetrachloroethane | ND(2.5) | ug/kg |
| Tetrachloroethene | ND(2.5) | ug/kg |
| 1,1,1-Trichloroethane | ND(2.5) | ug/kg |
| 1,1,2-Trichloroethane | ND(2.5) | ug/kg |
| Trichloroethene | ND(2.5) | ug/kg |
| Trichlorofluoromethane | ND (25) | ug/kg |
| Bromomethane | ND (25) | ug/kg |
| Chloroethane | ND (25) | ug/kg |
| Chloromethane | ND (25) | ug/kg |
| Vinyl chloride | ND (25) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

**APPROVED BY:** Mary C Strobel Virginia R. Bleich

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**CUSTOMER:** O'BRIEN & GERE **ATTN:** MARK RANDAZZO

L A B O R A T O R Y T E S T S R E S U L T S
11/29/89

**JOB NUMBER:** 890934 **DATE RECEIVED:** 11/14/89 **SAMPLE DATE:** 11/11/89

**PROJECT:** O'BRIEN & GERE-BROOKHURST **SAMPLE ID:** SIB-13 WESTSIDE TO THE SOUTH (34'-36')

## EPA 602/8020 PURGEABLE AROMATICS

| Compound | Concentration | Units |
|---|---|---|
| Benzene | ND(2.5) | ug/kg |
| Chlorobenzene | ND(2.5) | ug/kg |
| Ethylbenzene | ND(2.5) | ug/kg |
| 1,2-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,3-Dichlorobenzene | ND(2.5) | ug/kg |
| 1,4-Dichlorobenzene | ND(2.5) | ug/kg |
| Toluene | ND(2.5) | ug/kg |
| Total Xylenes | ND(2.5) | ug/kg |

ND = NOT DETECTED AT LEVEL SHOWN IN PARENTHESIS

APPROVED BY: Mary C. Frizzell Virginia R. Bleich

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1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1-4

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: ~~your EP~~  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >E6214

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6214

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec. 8.58  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 360. | U | |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10. | U | X |
| 95-95-4 | 2,4,5-Trichlorophenol | 50. | U | X |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 360. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0241128

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 1-4

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: ~~your EP~~  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: >E6214

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6214

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec. ~~8.58~~  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 360. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 360. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 56. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 720. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 120. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

1F 0241129 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

COMP 1-4

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~t your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: >E6214

Sample wt/vol: 30.4 (g/mL) G Lab File ID: >E6214

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. ~~8.58~~ dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 110021 | Thiophene (8CI9CI) | 9.34 | 0. | |
| 2. | 113008 | Guanidine (8CI9CI) | 10.17 | 10. | |
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0241130

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 5-8

Lab Name: CORE LABORATORIES Contract: ~~the centre~~

Lab Code: ~~your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6215

Sample wt/vol: 30.4 (g/mL) G Lab File ID: >E6215

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 7.88 dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 1800. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 360. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0241131

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 5-8

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: ~~your EP~~  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6215

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6215

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec. 7.88  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 360. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 1800. | U | |
| 132-64-9 | Dibenzofuran | 360. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 360. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 360. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 62. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 710. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 98. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

0241132

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

COMP 5-8

Lab Name:CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~1 your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6215

Sample wt/vol: 30.4 (g/mL) G Lab File ID: >E6215

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 7-88 dec. ---- Date Extracted:05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N pH:7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 113008 | Guanidine (8CI9CI) | 10.25 | 14. | |
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0241133

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 9-12

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6216

Sample wt/vol: 30.3 (g/mL) G Lab File ID: >E6216

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 9.32 dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 360. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 360. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0241134

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 9-12

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: ~~your EP~~  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6216

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >E6216

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec. 9.32  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 360. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 360. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1800. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 48. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 360. | U | |
| 218-01-9 | Chrysene | 360. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 51. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

1F 0241135

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COMP 9-12

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~t your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6216

Sample wt/vol: 30.3 (g/mL) G Lab File ID: >E6216

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 9.32 dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 113008 | Guanidine (8CI,9CI) | 10.29 | 13. | |
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0241136

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 9-12 MS

Lab Name: CORE LABORATORIES  Contract: I the contra

Lab Code: I your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: F6216 MS

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >F6216

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 1800. | | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 1900. | | |
| 541-73-1 | 1,3-Dichlorobenzene | 900. | | |
| 106-46-7 | 1,4-Dichlorobenzene | 950. | | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 1000. | | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 1300. | | |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 610. | | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 54. | J | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 10. | U | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | 970. | | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 2400. | | |
| 91-57-6 | 2-Methylnaphthalene | 360. | U | |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 10. | U | X |
| 606-20-2 | 2,6-Dinitrotoluene | 10. | U | X |

0241137

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 9-12 MS

Lab Name: CORE LABORATORIES  Contract: I the contra

Lab Code: I your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: F6216 MS

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >F6216

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 1300. | | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 590. | J | |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 1100. | | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1800. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 1600. | J | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 2400. | B | |
| 206-44-0 | Fluoranthene | 1700. | | |
| 129-00-0 | Pyrene | 2100. | | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

0241138

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 9-12 MSD

Lab Name: CORE LABORATORIES  Contract: I the contra

Lab Code: I your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: G6216 MSD

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >G6216

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 2300. | | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 2400. | | |
| 541-73-1 | 1,3-Dichlorobenzene | 1100. | | |
| 106-46-7 | 1,4-Dichlorobenzene | 1200. | | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 1300. | | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 1600. | | |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 50. | U | X |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 10. | U | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1200. | | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 2700. | | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 10. | U | X |
| 606-20-2 | 2,6-Dinitrotoluene | 10. | U | X |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0241139

EPA SAMPLE NO.

COMP 9-12 MSD

Lab Name: CORE LABORATORIES  Contract: | the contra

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: G6216 MSD

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >G6216

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/28/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 1500. | | |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 700. | J | |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 1200. | | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1800. | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 2000. | | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 2500. | B | |
| 206-44-0 | Fluoranthene | 1800. | | |
| 129-00-0 | Pyrene | 2100. | | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 360. | U | |
| 218-01-9 | Chrysene | 360. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

0241140

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 17-20

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6240

Sample wt/vol: 30.3 (g/mL) G Lab File ID: >E6240

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 9.43 dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 360. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 360. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 360. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 360. | U | |
| 100-51-6 | Benzyl alcohol | 360. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 360. | U | |
| 95-48-7 | 2-Methylphenol | 360. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 360. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 360. | U | |
| 98-95-3 | Nitrobenzene | 360. | U | |
| 78-59-1 | Isophorone | 360. | U | |
| 88-75-5 | 2-Nitrophenol | 360. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 360. | U | |
| 65-85-0 | Benzoic acid | 79. | J | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 10. | U | X |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 360. | U | |
| 87-68-3 | Hexachlorobutadiene | 360. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 360. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 360. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 360. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 360. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 10. | U | X |
| 606-20-2 | 2,6-Dinitrotoluene | 360. | U | |

0241141

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 17-20

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: ~~t your EP~~  Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6240

Sample wt/vol: 30.3 (g/mL) G  Lab File ID: >E6240

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec. 9.43  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1800. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1800. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 360. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 360. | U | |
| 118-74-1 | Hexachlorobenzene | 360. | U | |
| 87-86-5 | Pentachlorophenol | 50. | U | X |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 90. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 360. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 100. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 360. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 360. | U | |
| 50-32-8 | Benzo(a)pyrene | 360. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 360. | U | |

(1) - Cannot be separated from Diphenylamine

0241142

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

COMP 17-20

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: ~~+ your EP~~ Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6240

Sample wt/vol: 30.3 (g/mL) G Lab File ID: >E6240

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec. 9.43 dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 113008 | Guanidine (8CI9CI) | 10.10 | 7. | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

0241143

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 21-36

Lab Name: CORE LABORATORIES  Contract: | the contra

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6241

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6241

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 350. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 10. | U | X |
| 78-59-1 | Isophorone | 350. | U | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 350. | U | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

0241144

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 21-36

Lab Name: CORE LABORATORIES  Contract: I the contra

Lab Code: I your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6241

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6241

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 350. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 350. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10. | U | X |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 51. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 350. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 690. | U | |
| 56-55-3 | Benzo(a)anthracene | 350. | U | |
| 218-01-9 | Chrysene | 350. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 110. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10. | U | X |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

0241145

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 42-55,58

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: | your EP Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6260

Sample wt/vol: 30.2 (g/mL) G Lab File ID: >E6260

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec.---- dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 350. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 350. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 350. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 350. | U | |
| 100-51-6 | Benzyl alcohol | 350. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 350. | U | |
| 95-48-7 | 2-Methylphenol | 350. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 350. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 350. | U | |
| 98-95-3 | Nitrobenzene | 10. | U | X |
| 78-59-1 | Isophorone | 350. | U | |
| 88-75-5 | 2-Nitrophenol | 350. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 350. | U | |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 350. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350. | U | |
| 91-20-3 | Naphthalene | 350. | U | |
| 106-47-8 | 4-Chloroaniline | 350. | U | |
| 87-68-3 | Hexachlorobutadiene | 350. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 350. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 350. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 350. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 350. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 350. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 350. | U | |

0241146

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 42-55,58

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6260

Sample wt/vol: 30.2 (g/mL) G  Lab File ID: >E6260

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 350. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 1700. | U | |
| 132-64-9 | Dibenzofuran | 350. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 350. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 350. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 350. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 350. | U | |
| 118-74-1 | Hexachlorobenzene | 350. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 75. | JB | |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 690. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 380. | | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 350. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 350. | U | |
| 50-32-8 | Benzo(a)pyrene | 350. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 350. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 350. | U | |

(1) - Cannot be separated from Diphenylamine

0241147

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 61-68

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6281

Sample wt/vol: 30.2 (g/mL) G  Lab File ID: >E6281

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 340. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 340. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 340. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 340. | U | |
| 100-51-6 | Benzyl alcohol | 340. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 340. | U | |
| 95-48-7 | 2-Methylphenol | 340. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 340. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 340. | U | |
| 98-95-3 | Nitrobenzene | 340. | U | |
| 78-59-1 | Isophorone | 10. | U | X |
| 88-75-5 | 2-Nitrophenol | 340. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 340. | U | |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 340. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 340. | U | |
| 91-20-3 | Naphthalene | 10. | U | X |
| 106-47-8 | 4-Chloroaniline | 340. | U | |
| 87-68-3 | Hexachlorobutadiene | 340. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 340. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 340. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 340. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 340. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 340. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 340. | U | |

0241148

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 61-68

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6281

Sample wt/vol: 30.2 (g/mL) G  Lab File ID: >E6281

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 340. | U | |
| 51-28-5 | 2,4-Dinitrophenol | 1700. | U | |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 340. | U | |
| 121-14-2 | 2,4-Dinitrotoluene | 340. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 340. | U | |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 1700. | U | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 340. | U | |
| 101-55-3 | 4-Bromophenyl-phenylether | 340. | U | |
| 118-74-1 | Hexachlorobenzene | 340. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 340. | U | |
| 120-12-7 | Anthracene | 340. | U | |
| 84-74-2 | Di-n-butylphthalate | 83. | JB | |
| 206-44-0 | Fluoranthene | 340. | U | |
| 129-00-0 | Pyrene | 340. | U | |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 680. | U | |
| 56-55-3 | Benzo(a)anthracene | 340. | U | |
| 218-01-9 | Chrysene | 340. | U | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 86. | J | |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 340. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 340. | U | |
| 50-32-8 | Benzo(a)pyrene | 340. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 340. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 340. | U | |

(1) - Cannot be separated from Diphenylamine

0241149

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 69-74

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6282

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6282

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 330. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 330. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 330. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 330. | U | |
| 100-51-6 | Benzyl alcohol | 330. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 330. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 330. | U | |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 36. | JB | |
| 67-72-1 | Hexachloroethane | 330. | U | |
| 98-95-3 | Nitrobenzene | 330. | U | |
| 78-59-1 | Isophorone | 38. | J | |
| 88-75-5 | 2-Nitrophenol | 330. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 330. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330. | U | |
| 91-20-3 | Naphthalene | 4700. | | |
| 106-47-8 | 4-Chloroaniline | 40. | J | |
| 87-68-3 | Hexachlorobutadiene | 330. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 330. | U | |
| 91-57-6 | 2-Methylnaphthalene | 11000. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 330. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 330. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 44. | J | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 330. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 82. | J | |

0241150

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 69-74

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6282

Sample wt/vol: 30.4 (g/mL) G  Lab File ID: >E6282

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 90. | JB | |
| 51-28-5 | 2,4-Dinitrophenol | 160. | J | |
| 100-02-7 | 4-Nitrophenol | 76. | J | |
| 132-64-9 | Dibenzofuran | 70. | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 10. | U | X |
| 84-66-2 | Diethylphthalate | 330. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330. | U | |
| 86-73-7 | Fluorene | 210. | J | |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 68. | JB | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 130. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 330. | U | |
| 118-74-1 | Hexachlorobenzene | 330. | U | |
| 87-86-5 | Pentachlorophenol | 50. | U | X |
| 85-01-8 | Phenanthrene | 4700. | | |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 66. | JB | |
| 85-68-7 | Butylbenzylphthalate | 330. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 330. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 330. | U | |
| 50-32-8 | Benzo(a)pyrene | 330. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 330. | U | |

(1) - Cannot be separated from Diphenylamine

0241151

1B

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 75-76

Lab Name: CORE LABORATORIES  Contract: ~~the contra~~

Lab Code: | your EP Case No.: -----  SAS No.: -----  SDG No.: ------

Matrix: (soil/water) SOIL  Lab Sample ID: E6283

Sample wt/vol: 30.5 (g/mL) G  Lab File ID: >E6283

Level: (low/med) LOW  Date Received: 05/25/89

% Moisture: not dec.----  dec. ----  Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | Q | |
|---|---|---|---|---|
| 108-95-2 | Phenol | 340. | U | |
| 111-44-4 | bis(2-Chloroethyl)Ether | 10. | U | X |
| 95-57-8 | 2-Chlorophenol | 340. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 340. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 340. | U | |
| 100-51-6 | Benzyl alcohol | 340. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 340. | U | |
| 95-48-7 | 2-Methylphenol | 10. | U | X |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 10. | U | X |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 200. | JB | |
| 67-72-1 | Hexachloroethane | 340. | U | |
| 98-95-3 | Nitrobenzene | 340. | U | |
| 78-59-1 | Isophorone | 10. | U | X |
| 88-75-5 | 2-Nitrophenol | 340. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 10. | U | X |
| 65-85-0 | Benzoic acid | 1700. | U | |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 340. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10. | U | X |
| 91-20-3 | Naphthalene | 6100. | | |
| 106-47-8 | 4-Chloroaniline | 10. | U | X |
| 87-68-3 | Hexachlorobutadiene | 340. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 340. | U | |
| 91-57-6 | 2-Methylnaphthalene | 35000. | | |
| 77-47-4 | Hexachlorocyclopentadiene | 340. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 340. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700. | U | |
| 91-58-7 | 2-Chloronaphthalene | 340. | U | |
| 88-74-4 | 2-Nitroaniline | 1700. | U | |
| 131-11-3 | Dimethylphthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 340. | U | |
| 606-20-2 | 2,6-Dinitrotoluene | 220. | J | |

0241152

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
COMP 75-76

Lab Name: CORE LABORATORIES Contract: ~~the contra~~

Lab Code: | your EP Case No.: ----- SAS No.: ----- SDG No.: ------

Matrix: (soil/water) SOIL Lab Sample ID: E6283

Sample wt/vol: 30.5 (g/mL) G Lab File ID: >E6283

Level: (low/med) LOW Date Received: 05/25/89

% Moisture: not dec.---- dec. ---- Date Extracted: 05/31/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 6/29/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 1700. | U | |
| 83-32-9 | Acenaphthene | 280. | JB | |
| 51-28-5 | 2,4-Dinitrophenol | 390. | J | |
| 100-02-7 | 4-Nitrophenol | 110. | J | |
| 132-64-9 | Dibenzofuran | 150. | J | |
| 121-14-2 | 2,4-Dinitrotoluene | 340. | U | |
| 84-66-2 | Diethylphthalate | 340. | U | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 340. | U | |
| 86-73-7 | Fluorene | 5200. | | |
| 100-01-6 | 4-Nitroaniline | 61. | J | |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700. | U | |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 260. | J | |
| 101-55-3 | 4-Bromophenyl-phenylether | 340. | U | |
| 118-74-1 | Hexachlorobenzene | 340. | U | |
| 87-86-5 | Pentachlorophenol | 1700. | U | |
| 85-01-8 | Phenanthrene | 12000. | | |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 340. | U | |
| 206-44-0 | Fluoranthene | 37. | J | |
| 129-00-0 | Pyrene | 160. | JB | |
| 85-68-7 | Butylbenzylphthalate | 340. | U | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 670. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10. | U | X |
| 117-84-0 | Di-n-octylphthalate | 10. | U | X |
| 205-99-2 | Benzo(b)fluoranthene | 340. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 340. | U | |
| 50-32-8 | Benzo(a)pyrene | 340. | U | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 340. | U | |
| 53-70-3 | Dibenz(a,h)anthracene | 10. | U | X |
| 191-24-2 | Benzo(g,h,i)perylene | 340. | U | |

(1) - Cannot be separated from Diphenylamine

0241153

VAN WATERS AND ROGERS

0241154

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1-4

Lab Name: CORE LAB Contract: -------

Lab Code: ----- Case No.: ----- SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: B5157

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >B5157

Level: (low/med) LOW Date Received: 11/13/89

% Moisture: not dec. 9.2 dec. ---- Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 370. | U | |
| 111-44-4 | bis(-2-Chloroethyl)Ether | 370. | U | |
| 95-57-8 | 2-Chlorophenol | 370. | U | |
| 541-73-1 | 1,3-Dichlorobenzene | 370. | U | |
| 106-46-7 | 1,4-Dichlorobenzene | 370. | U | |
| 100-51-6 | Benzyl alcohol | 370. | U | |
| 95-50-1 | 1,2-Dichlorobenzene | 370. | U | |
| 95-48-7 | 2-Methylphenol | 370. | U | |
| 39638-32-9 | bis(2-chloroisopropyl)ether | 10. | U | X |
| 106-44-5 | 4-Methylphenol | 370. | U | |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10. | U | X |
| 67-72-1 | Hexachloroethane | 370. | U | |
| 98-95-3 | Nitrobenzene | 370. | U | |
| 78-59-1 | Isophorone | 51. | JB | |
| 88-75-5 | 2-Nitrophenol | 370. | U | |
| 105-67-9 | 2,4-Dimethylphenol | 370. | U | |
| 65-85-0 | Benzoic acid | 62. | J | |
| 111-91-1 | bis(-2-Chloroethoxy)methane | 10. | U | X |
| 120-83-2 | 2,4-Dichlorophenol | 370. | U | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 370. | U | |
| 91-20-3 | Naphthalene | 370. | U | |
| 106-47-8 | 4-Chloroaniline | 370. | U | |
| 87-68-3 | Hexachlorobutadiene | 370. | U | |
| 59-50-7 | 4-Chloro-3-methylphenol | 370. | U | |
| 91-57-6 | 2-Methylnaphthalene | 10. | U | X |
| 77-47-4 | Hexachlorocyclopentadiene | 370. | U | |
| 88-06-2 | 2,4,6-Trichlorophenol | 370. | U | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800. | U | |
| 91-58-7 | 2-Chloronaphthalene | 370. | U | |
| 88-74-4 | 2-Nitroaniline | 50. | U | X |
| 131-11-3 | Dimethyl Phthalate | 10. | U | X |
| 208-96-8 | Acenaphthylene | 10. | U | X |
| 606-20-2 | 2,6-Dinitrotoluene | 10. | U | X |

0241155

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COMP 1-4

Lab Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: B5157

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >B5157

Level: (low/med) LOW  Date Received: 11/13/89

% Moisture: not dec. 9.2  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg | | Q |
|---|---|---|---|---|
| 99-09-2 | 3-Nitroaniline | 50. | U | X |
| 83-32-9 | Acenaphthene | 10. | U | X |
| 51-28-5 | 2,4-Dinitrophenol | 50. | U | X |
| 100-02-7 | 4-Nitrophenol | 50. | U | X |
| 132-64-9 | Dibenzofuran | 10. | U | X |
| 121-14-2 | 2,4-Dinitrotoluene | 370. | U | |
| 84-66-2 | Diethylphthalate | 10. | U | X |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10. | U | X |
| 86-73-7 | Fluorene | 10. | U | X |
| 100-01-6 | 4-Nitroaniline | 50. | U | X |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 50. | U | X |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 10. | U | X |
| 101-55-3 | 4-Bromophenyl-phenylether | 370. | U | |
| 118-74-1 | Hexachlorobenzene | 10. | U | X |
| 87-86-5 | Pentachlorophenol | 50. | U | X |
| 85-01-8 | Phenanthrene | 10. | U | X |
| 120-12-7 | Anthracene | 10. | U | X |
| 84-74-2 | Di-n-butylphthalate | 10. | U | X |
| 206-44-0 | Fluoranthene | 10. | U | X |
| 129-00-0 | Pyrene | 10. | U | X |
| 85-68-7 | Butylbenzylphthalate | 10. | U | X |
| 91-94-1 | 3,3'-Dichlorobenzidine | 730. | U | |
| 56-55-3 | Benzo(a)anthracene | 10. | U | X |
| 218-01-9 | Chrysene | 10. | U | X |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 120. | JB | |
| 117-84-0 | Di-n-octyl phthalate | 45. | J | |
| 205-99-2 | Benzo(b)fluoranthene | 370. | U | |
| 207-08-9 | Benzo(k)fluoranthene | 10. | U | X |
| 50-32-8 | Benzo(a)pyrene | 10. | U | X |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10. | U | X |
| 53-70-3 | Dibenzo(a,h)anthracene | 370. | U | |
| 191-24-2 | Benzo(g,h,i)perylene | 10. | U | X |

(1) - Cannot be separated from Diphenylamine

0241156

EPA SAMPLE NO.

COMP 1-4

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

Name: CORE LAB  Contract: -------

Lab Code: -----  Case No.: -----  SAS No.: -----  SDG No.: -----

Matrix: (soil/water) SOIL  Lab Sample ID: 85157

Sample wt/vol: 30.0 (g/mL) G  Lab File ID: >85157

Level: (low/med) LOW  Date Received: 11/13/89

% Moisture: not dec. 9.2  dec. ----  Date Extracted: 11/22/89

Extraction: (Sepf/Cont/Sonc) SONC  Date Analyzed: 12/15/89

GPC Cleanup: (Y/N) N  pH: 7.2  Dilution Factor: 1.00000

Number TICs found: 7  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 110021 | Thiophene (8CI9CI) | 9.81 | 19. | |
| 2. | 56701021 | Isoxazolidine, 5-ethyl-2,4-d | 10.42 | 1400. | |
| 3. | 3973271 | p-Dioxin, 2,3-dihydro-2,5,6- | 12.24 | 31. | |
| 4. | 1119444 | 3-Hepten-2-one (8CI9CI) | 12.72 | 56. | |
| 6. | 1921706 | Pentadecane, 2,6,10,14-tetra | 26.83 | 170. | |
| 7. | 3369526 | 4,7-Methanoisobenzofuran, 4, | 35.74 | 1500. | |
| 7. | | | | | |
| 8. | | | | | |
| 9. | | | | | |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

Western Atlas International
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ORE LABORATORIES

0241157

SAMPLE ID

TA SHEET

VRB COMPOSITE

Lab Name: CORE LABORATORIES Contract:

Lab Code: 891515-7 Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Lab Sample ID:

Level (low/med): _____ Date Received:

% Solids: 90.8%

Concentration Units (ug/L or mg/kg dry weight): mg/Kg

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6340. | | | P |
| 7440-36-0 | Antimony | 0.3 | B | N | F |
| 7440-38-2 | Arsenic | 5.8 | | | F |
| 7440-39-3 | Barium | 108. | | | P |
| 7440-41-7 | Beryllium | 0.4 | B | | P |
| 7440-43-9 | Cadmium | 0.2 | U | | P |
| 7440-70-2 | Calcium | 26700. | | | P |
| 7440-47-3 | Chromium | 11.0 | | N | P |
| 7440-48-4 | Cobalt | 6.0 | | | P |
| 7440-50-8 | Copper | 15.9 | | * | P |
| 7439-89-6 | Iron | 14900. | | | P |
| 7439-92-1 | Lead | 15.4 | | | F |
| 7439-95-4 | Magnesium | 9720. | | | P |
| 7439-96-5 | Manganese | 322. | | | P |
| 7439-97-6 | Mercury | 0.1 | U | | CV |
| 7440-02-0 | Nickel | 12.5 | | | P |
| 7440-09-7 | Potassium | 1330. | | | P |
| 7782-49-2 | Selenium | 0.4 | U | | F |
| 7440-22-4 | Silver | 0.3 | B | | P |
| 7440-23-5 | Sodium | 648. | | | P |
| 7440-28-0 | Thallium | 0.1 | U | | F |
| 7440-62-2 | Vanadium | 18.7 | | | P |
| 7440-66-6 | Zinc | 50.8 | | | P |
| | | . | | | |
| | | | | | |

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments: _____

FORM I - IN

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