EPA Region 5 Records Ctr.
205324

# TECHNICAL MEMORANDUM
# SEPTEMBER 1997 GROUNDWATER SAMPLING RESULTS REPORT AND PROPOSED GROUNDWATER MONITORING PLAN

## AMERICAN CHEMICAL SERVICE, INC.
## NPL SITE
## GRIFFITH, INDIANA

*VOLUME 2 – APPENDICES D THROUGH H*

**Montgomery Watson File No. 1252042**

---

Prepared For:

ACS RD/RA Executive Committee

Prepared By:

Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

January 1998

MONTGOMERY WATSON

# APPENDIX D

## UPPER AQUIFER AND FIELD AND TRIP BLANK LABORATORY DATA

*One copy of Appendix D has been provided to U.S. EPA, IDEM, and B&VWS. Additional copies of the appendix are available upon request to Montgomery Watson.*

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWM1S-03

WM1S

9/23/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970936703

Level (low/med): LOW__ VALIDATED Date Received: 09/24/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 891 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.1 | B | | P_ |
| 7440-39-3 | Barium___ | 908 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 251000 | | | P_ |
| 7440-47-3 | Chromium_ | 22.8 | | | P_ |
| 7440-48-4 | Cobalt___ | 5.1 | B | | P_ |
| 7440-50-8 | Copper___ | J U 8.3 | B | | P_ |
| 7439-89-6 | Iron_____ | 13300 | | | P_ |
| 7439-92-1 | Lead_____ | 2.5 | B | | P_ |
| 7439-95-4 | Magnesium | J 91100 | | | P_ |
| 7439-96-5 | Manganese | 347 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 22.1 | B | | P_ |
| 7440-09-7 | Potassium | J 38100 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 125000 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.4 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 21.3 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM1S-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0925V12.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 2 | J |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 18 | |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 2 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 34 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 60 | |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | UJ | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | 8 | JB |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

WM1S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_232.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM1S-03

b Name: IEA-NC Method: SOW 1/91

t Code: IEA Case No.: 2240-080 SDG No.: 09367

atrix: (soil/water) WATER Lab Sample ID: 970936703

ample wt/vol: 5 (g/mL) ml Lab File ID: 0925V12.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

oil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.44 | 95 | JN |
| 000593-70-4 | METHANE, CHLOROFLUORO- | 2.82 | 36 | JN |
| 000060-29-7 | ETHER | 4.59 | 20 | JN |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM1S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007615.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: VALIDATED

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.20 | 26 | J |
| | Unknown | 7.95 | 7 | J |
| | Propanol isomer | 9.42 | 23 | J |
| | Propanol isomer | 9.49 | 23 | J |
| | Unknown | 9.67 | 36 | J |
| | Unknown | 9.83 | 43 | J |
| | Unknown | 9.90 | 12 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.13 | 35 | JN |
| | Unknown | 10.42 | 12 | J |
| | Unknown | 12.03 | 13 | J |
| | Unknown | 12.72 | 9 | J |
| | Unknown | 13.45 | 13 | J |
| | Unknown | 14.53 | 18 | J |
| | Unknown | 15.02 | 14 | J |
| | Unknown | 15.28 | 9 | J |
| | Unknown | 15.67 | 8 | J |
| | Unknown | 15.95 | 9 | J |
| | Unknown | 20.38 | 13 | J |
| 000076-73-3 | SECOBARBITAL | 20.51 | 46 | JN |
| | Unknown Acid | 21.82 | 7 | J |

INORGANIC ANALYSES DATA SHEET

ACS-GWM-3S-03

WM3S

9/23/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

a Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

atrix (soil/water): WATER Lab Sample ID: 970936704

evel (low/med): LOW__ Date Received: 09/24/97

Solids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 257 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 15.5 | | | P_ |
| 7440-39-3 | Barium__ | 213 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 134000 | | | P_ |
| 7440-47-3 | Chromium_ | 12.7 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.1 | B | | P_ |
| 7440-50-8 | Copper___ | U 5.0 | B | | P_ |
| 7439-89-6 | Iron____ | 4750 | | | P_ |
| 7439-92-1 | Lead____ | 1.6 | B | | P_ |
| 7439-95-4 | Magnesium | J 39000 | | | P_ |
| 7439-96-5 | Manganese | 488 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.2 | B | | P_ |
| 7440-09-7 | Potassium | J 13400 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 42500 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | B 3.3 | B | | P_ |
| 7440-66-6 | Zinc____ | U 18.9 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A VALIDATED CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0925V13.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 8 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 8 | J |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenapnthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | 6 | JB |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM3S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

VALIDATED

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_233.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWM3S-03

a Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0925V13.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007608.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 15

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 8.21 | 3 | J |
| | Unknown | 9.85 | 2 | J |
| | Unknown | 9.90 | 3 | J |
| | Unknown | 11.53 | 2 | J |
| 001696-20-4 | MORPHOLINE, 4-ACETYL- | 12.61 | 4 | JN |
| | Unknown | 13.22 | 2 | J |
| | Unknown | 13.61 | 3 | J |
| | Unknown | 14.05 | 2 | J |
| | Unknown | 14.28 | 3 | J |
| | Unknown | 16.88 | 4 | J |
| 000076-73-3 | SECOBARBITAL | 20.40 | 12 | JN |
| 000050-06-6 | PHENOBARBITAL | 22.31 | 4 | JN |
| | Unknown | 24.49 | 2 | J |
| | Unknown | 24.86 | 2 | J |
| | Unknown | 25.86 | 8 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-(W)M3S-93

3S93

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/23/97

Matrix (soil/water): WATER Lab Sample ID: 970936808

Level (low/med): LOW__ Date Received: 09/24/97

% Solids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 137 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 13.8 | | | P_ |
| 7440-39-3 | Barium__ | 211 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 131000 | | | P_ |
| 7440-47-3 | Chromium_ | 4.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 3.9 | B | | P_ |
| 7439-89-6 | Iron____ | 4200 | | | P_ |
| 7439-92-1 | Lead____ | 1.1 | B | | P_ |
| 7439-95-4 | Magnesium | J 38100 | | | P_ |
| 7439-96-5 | Manganese | 482 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 7.2 | B | | P_ |
| 7440-09-7 | Potassium | J 13400 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 42500 | | E | P_ |
| 7440-28-0 | Thallium_ | U 2.0 | B | | P_ |
| 7440-62-2 | Vanadium_ | 2.8 | B | | P_ |
| 7440-66-6 | Zinc____ | U 15.3 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM3S-93

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926109.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | 25 | 24 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 9 | J |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10U ~~2~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

3S93

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_229.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926109.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM3S-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936808

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007612.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.84 | 5 | J |
| | Unknown | 9.89 | 3 | J |
| | Unknown | 13.67 | 4 | J |
| | Unknown | 16.88 | 3 | J |
| | Unknown | 19.95 | 3 | J |
| 000076-73-3 | SECOBARBITAL | 20.41 | 12 | JN |
| 000050-06-6 | PHENOBARBITAL | 22.31 | 3 | JN |
| 000080-05-7 | PHENOL, 4,4'-(1-METHYLETHYLI | 24.06 | 2 | JN |
| | Unknown | 24.87 | 8 | J |
| | Unknown | 25.88 | 9 | J |

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWM4S-03

WM4S

9/23/97

:a Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

.ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

:a rix (soil/water): WATER Lab Sample ID: 970936705

.evel (low/med): LOW__ VALIDATED Date Received: 09/24/97

; olids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1120 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 6.8 | B | | P |
| 7440-39-3 | Barium___ | 446 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 281000 | | | P |
| 7440-47-3 | Chromium_ | 28.9 | | | P |
| 7440-48-4 | Cobalt___ | 5.4 | B | | P |
| 7440-50-8 | Copper___ | U 10.8 | B | | P |
| 7439-89-6 | Iron_____ | 22000 | | | P |
| 7439-92-1 | Lead_____ | 3.5 | | | P |
| 7439-95-4 | Magnesium | J 47800 | | | P |
| 7439-96-5 | Manganese | 557 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 28.4 | B | | P |
| 7440-09-7 | Potassium | J 22800 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 72800 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 3.9 | B | | P |
| 7440-66-6 | Zinc_____ | U 29.8 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

'c or Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

:olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

:omments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

9/23/97

b Name: IEA-NC Method: SOW 1/91

b Code: IEA Case No.: 2240-080 SDG No.: 09367

trix: (soil/water) WATER Lab Sample ID: 970936705

ir ple wt/vol: 5 (g/mL) ml Lab File ID: 0926J09.D

evel: (low/med) LOW Date Received: 09/24/97

oisture: not dec. Date Analyzed: 09/27/97

C Column: DB-624 ID: 0.53(mm) Dilution Factor: 8.03

c_l Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 80 | U |
| 74-83-9 | Bromomethane | | 80 | U |
| 75-01-4 | Vinyl Chloride | | 80 | U |
| 75-00-3 | Chloroethane | | 1000 | |
| 75-09-2 | Methylene Chloride | UJ | 80 | U |
| 67-64-1 | Acetone | | 80 | U |
| 75-15-0 | Carbon Disulfide | | 80 | U |
| 75-35-4 | 1,1-Dichloroethene | | 80 | U |
| 75-34-3 | 1,1-Dichloroethane | | 80 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 80 | U |
| 67-66-3 | Chloroform | | 80 | U |
| 107-06-2 | 1,2-Dichloroethane | | 80 | U |
| 8-93-3 | 2-Butanone | | 80 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 80 | U |
| 56-23-5 | Carbon Tetrachloride | | 80 | U |
| 75-27-4 | Bromodichloromethane | | 80 | U |
| 78-87-5 | 1,2-Dichloropropane | | 80 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 80 | U |
| 79-01-6 | Trichloroethene | | 80 | U |
| 124-48-1 | Dibromochloromethane | | 80 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 80 | U |
| 71-43-2 | Benzene | | 73 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 80 | U |
| 75-25-2 | Bromoform | UJ | 80 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 80 | U |
| 591-78-6 | 2-Hexanone | | 80 | U |
| 127-18-4 | Tetrachloroethene | | 80 | U |
| 108-88-3 | Toluene | | 80 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 80 | U |
| 108-90-7 | Chlorobenzene | | 80 | U |
| 100-41-4 | Ethylbenzene | | 80 | U |
| 100-42-5 | Styrene | | 80 | U |
| 1330-20-7 | Xylene (total) | | 80 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009607.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 25 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnapnthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM4S-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-080  SDG No.: 09367

Matrix: (soil/water) WATER  Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1009607.D

Level: (low/med) LOW  Date Received: 09/24/97

% Moisture: decanted: (Y/N)  Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | ~~5~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM4S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_234.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926J09.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/27/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000109-99-9 | FURAN, TETRAHYDRO- | 8.89 | 45 | JN |

FORM I VOA-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4S-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936705

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009607.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Substituted Benzene Isomer | 9.76 | 8 | J |
| | Unknown | 11.00 | 4 | J |
| | Unknown | 11.35 | 18 | J |
| | Unknown | 12.62 | 9 | J |
| | Unknown | 13.66 | 5 | J |
| | Unknown | 14.03 | 7 | J |
| 000000-00-0 | 1,4-DIMETHYL-1,2,3,4-TETRAHY | 14.82 | 7 | JN |
| | Unknown | 15.37 | 7 | J |
| | Unknown | 16.12 | 5 | J |
| | Unknown | 16.26 | 6 | J |
| | Unknown Acid | 17.45 | 4 | J |
| | Unknown | 17.64 | 5 | J |
| | Unknown | 18.76 | 4 | J |
| 007085-19-0 | PROPANOIC ACID, 2-(4-CHLORO- | 18.91 | 4 | JN |
| | Unknown | 19.34 | 6 | J |
| | Unknown | 19.71 | 16 | J |
| | Unknown | 19.79 | 8 | J |
| | Unknown | 21.67 | 5 | J |
| | Unknown | 25.89 | 5 | J |
| | Unknown | 26.33 | 10 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW06-03

MW06

.a Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

.ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

9/23/97

ia rix (soil/water): WATER Lab Sample ID: 970936702

.evel (low/med): LOW__ Date Received: 09/24/97

; solids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 180 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 41.9 | | | P_ |
| 7440-39-3 | Barium___ | 369 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 174000 | | | P_ |
| 7440-47-3 | Chromium_ | 33.1 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.5 | B | | P_ |
| 7440-50-8 | Copper___ | U 7.5 | B | | P_ |
| 7439-89-6 | Iron____ | 14300 | | | P_ |
| 7439-92-1 | Lead____ | 9.0 | | | P_ |
| 7439-95-4 | Magnesium | J 34200 | | | P_ |
| 7439-96-5 | Manganese | 2170 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 25.2 | B | | P_ |
| 7440-09-7 | Potassium | J 16900 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 79300 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 20.4 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

C lor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

C-lor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALID

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926105.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 4 | J |
| 75-00-3 | Chloroethane | J | 140 | |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 2 | J |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 3 | J |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 140 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 1 | J |
| 100-41-4 | Ethylbenzene | | 13 | |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 29 | |

1B VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 60 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 31 | |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 2 | J |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 3 | J |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 ~~3~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

MW06

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_231.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

I b Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926105.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000115-07-1 | PROPENE | 2.17 | 9 | JN |
| 000060-29-7 | ETHER | 4.19 | 29 | JN |
| | UNKNOWN HYDROCARBON | 23.42 | 6 | J |
| | UNKNOWN HYDROCARBON | 24.37 | 60 | J |

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW06-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008604.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.87 | 6 | J |
| | Unknown | 8.79 | 9 | J |
| | Unknown | 9.78 | 6 | J |
| | Unknown | 9.87 | 46 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.12 | 270 | JN |
| | Unknown | 10.28 | 5 | J |
| 000100-61-8 | ANILINE, N-METHYL- | 10.57 | 6 | JN |
| | Unknown | 13.61 | 7 | J |
| | Unknown | 15.87 | 8 | J |
| | Unknown | 16.10 | 5 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.80 | 6 | JN |
| | Unknown | 18.83 | 32 | J |
| 000934-34-9 | 2(3H)-BENZOTHIAZOLONE | 19.03 | 24 | JN |
| | Unknown | 19.50 | 28 | J |
| 000076-73-3 | SECOBARBITAL | 20.44 | 46 | JN |
| 000057-10-3 | HEXADECANOIC ACID | 21.75 | 6 | JNX |
| 000050-06-6 | PHENOBARBITAL | 22.35 | 31 | JN |
| | Unknown | 25.22 | 5 | J |
| | Unknown | 25.82 | 8 | J |
| | Unknown | 26.53 | 5 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AKS-GWMW11-03
MW11
9-29-97

L b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

L b Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947318

L vel (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 421 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 27.4 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 35,700 | | | P |
| 7440-47-3 | Chromium_ | 2.9 | B | | P |
| 7440-48-4 | Cobalt___ | 1.3 | B | | P |
| 7440-50-8 | Copper___ | u 3.9 | B | | P |
| 7439-89-6 | Iron_____ | 1600 | | | P |
| 7439-92-1 | Lead_____ | u 4.6 | | | P |
| 7439-95-4 | Magnesium | 11,400 | | | P |
| 7439-96-5 | Manganese | 525 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 4.5 | B | | P |
| 7440-09-7 | Potassium | J 1150 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | u 4890 | B | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.4 | B | | P |
| 7440-66-6 | Zinc_____ | u 14.1 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

C lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03 9-29-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V09.D

Level: (low/med) LOW Date Received: 09/30/97

Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW11-03

ɔ Name: IEA-NC Method: SOW 1/91

ɔ Code: IEA Case No.: 2240-082 SDG No.: 09403

t ix: (soil/water) WATER Lab Sample ID: 970947318

mple wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

ı :l: (low/med) LOW Date Received: 09/30/97

Moisture: decanted: (Y/N) Date Extracted: 10/02/97

ɔı :entrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

ıfection Volume: 2.0 (uL) Dilution Factor: 1.0

Pc Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | U 23 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

FORM I SV-1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

FORM I SV-2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW11

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_163.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW11-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALIDATED

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW11-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947318

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015613.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.34 | 2 | J |
| | Unknown | 9.71 | 4 | J |
| | Unknown | 13.51 | 2 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.60~~ | ~~5~~ | ~~UNXB~~ R |

VALIDATED

FORM I SV-TIC

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW12-03

MW12

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ DATE SAMPLED: 10/01/97 SDG No.: 09475_

M trix (soil/water): WATER Lab Sample ID: 971004515

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1690 | | | P |
| 7440-36-0 | Antimony | U 1.2 | B | | P |
| 7440-38-2 | Arsenic | J 7.8 | B | | P |
| 7440-39-3 | Barium | 72.5 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 47400 | | | P |
| 7440-47-3 | Chromium | J 8.9 | B | | P |
| 7440-48-4 | Cobalt | J 2.4 | B | | P |
| 7440-50-8 | Copper | J 15.0 | B | | P |
| 7439-89-6 | Iron | 24400 | | | P |
| 7439-92-1 | Lead | 12.0 | | | P |
| 7439-95-4 | Magnesium | 17300 | | | P |
| 7439-96-5 | Manganese | 1210 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 7.4 | B | | P |
| 7440-09-7 | Potassium | J 2930 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | UJ 10600 | | E | P |
| 7440-28-0 | Thallium | U 2.3 | B | | P |
| 7440-62-2 | Vanadium | 20.2 | B | | P |
| 7440-66-6 | Zinc | U 27.1 | | | P |
| | Cyanide | 10.0 | U | | CA |

C lor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 5 | J |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml  Lab File ID: 1021809.D

Level: (low/med) LOW  Date Received: 10/02/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL)  Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL)  Dilution Factor: 2.0

GPC Cleanup: (Y/N) N  pH:  CRQL MULTIPLIER = 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 24 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 20 | U |
| 95-57-8 | 2-Chlorophenol | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 20 | U |
| 95-48-7 | 2-Methylphenol | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 87 | |
| 106-44-5 | 4-Methylphenol | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 20 | U |
| 67-72-1 | Hexachloroethane | 20 | U |
| 98-95-3 | Nitrobenzene | 20 | U |
| 78-59-1 | Isophorone | 20 | U |
| 88-75-5 | 2-Nitrophenol | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20 | U |
| 91-20-3 | Naphthalene | 20 | U |
| 106-47-8 | 4-Chloroaniline | 20 | U |
| 87-68-3 | Hexachlorobutadiene | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 20 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | J 3 | J |
| 208-96-8 | Acenaphthylene | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 20 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 20 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1021809.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW12-03

MW12

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ML Lab File ID: P4092597_262.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (2)

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/13/97 (0)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 24.78 | JN 33 | J |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW12-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004515

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1021809.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | JN 4 | JN |
| | SUBSTITUTED ETHANOL ISOMER | 13.52 | 6 | J |
| | ~~UNKNOWN~~ | ~~15.25~~ | B ~~8~~ | ~~J~~ |

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

VALIDATED

EPA SAMPLE NO.
ACS-GWMW13-03

MW13

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 10/01/97

N trix (soil/water): WATER Lab Sample ID: 971004516

I vel (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 172 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 68.5 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 130000 | | | P_ |
| 7440-47-3 | Chromium_ | 1.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.3 | B | | P_ |
| 7439-89-6 | Iron____ | 4420 | | | P_ |
| 7439-92-1 | Lead____ | 1.0 | U | | P_ |
| 7439-95-4 | Magnesium | 37000 | | | P_ |
| 7439-96-5 | Manganese | 604 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | U 1.9 | B | | P_ |
| 7440-09-7 | Potassium | J 2020 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 24600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 12.1 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1007K03.D

Level: (low/med) LOW Date Received: 10/02/97 ①

% Moisture: not dec. Date Analyzed: 10/07/97 ⑥

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 160 | |
| 75-09-2 | Methylene Chloride | J 1 | J |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 33 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 7 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 2 | J |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.
ACS-GW/MW13-03

MW13

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_268.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97 (1)

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (2)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1007K03.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/07/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.58 | JN 82 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW13-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004516

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017613.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.64 | JN 2 | J |
| 000112-36-7 | ETHANE, 1,1'-OXYBIS[2-ETHOXY- | 10.53 | 2 | JN |
| | UNKNOWN | 10.90 | 6 | J |
| | UNKNOWN | 13.41 | 3 | J |
| | UNKNOWN | 15.57 | 3 | J |
| | UNKNOWN | 17.58 | 4 | J |
| | UNKNOWN | 18.09 | 3 | J |
| | UNKNOWN | 18.75 | 3 | J |

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW14-03

MW14

L b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ DATE SAMPLED 9/29/97 SDG No.: 09475_

M trix (soil/water): WATER Lab Sample ID: 970947503

L vel (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 7180 | | | P_ |
| 7440-36-0 | Antimony_ | U 1.3 | B | | P_ |
| 7440-38-2 | Arsenic__ | 9.2 | B | | P_ |
| 7440-39-3 | Barium___ | 87.8 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 96400 | | | P_ |
| 7440-47-3 | Chromium_ | 26.2 | | | P_ |
| 7440-48-4 | Cobalt___ | 8.3 | B | | P_ |
| 7440-50-8 | Copper___ | 31.7 | | | P_ |
| 7439-89-6 | Iron____ | 25900 | | | P_ |
| 7439-92-1 | Lead____ | 20.3 | | | P_ |
| 7439-95-4 | Magnesium | 22000 | | | P_ |
| 7439-96-5 | Manganese | 290 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 21.9 | B | | P_ |
| 7440-09-7 | Potassium | J 6440 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | UJ 11600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 21.3 | B | | P_ |
| 7440-66-6 | Zinc____ | 59.2 | | | P_ |
| | Cyanide__ | 10.0 | U | | CA |

C lor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

C lor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/21/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V10.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 1 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 18 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 3 | J |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW14-03

MW14

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_259.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW14-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947503

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V10.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.86 | JN 28 | JN |

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATION [illegible]

ACS-GWMW14-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 970947503

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1016F11.D

Level: (low/med) LOW  Date Received: 09/30/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/16/97

Injection Volume: 2 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

Number TICs Found: 10  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.66 | JN 2 | J |
| | UNKNOWN | 12.14 | 2 | J |
| | UNKNOWN | 13.46 | 5 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.69 | 2 | JN |
| | UNKNOWN | 21.09 | 3 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.57~~ | ~~B 8~~ | ~~JNXB~~ |
| | UNKNOWN | 24.64 | JN 2 | J |
| | UNKNOWN | 24.87 | 5 | J |
| | UNKNOWN | 25.61 | 2 | J |
| | ~~UNKNOWN~~ | ~~26.83~~ | ~~B 3~~ | ~~J~~ |

000101-10-0 Propanoic Acid, 2-(3-chloropheno xy) 17.69 JN 2 JN

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW15-03

MW15

9/23/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970936707

Level (low/med): LOW__ VALIDATED Date Received: 09/24/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 487 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 57.6 | | | P |
| 7440-39-3 | Barium___ | 1360 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 73000 | | | P |
| 7440-47-3 | Chromium_ | 12.8 | | | P |
| 7440-48-4 | Cobalt___ | 4.6 | B | | P |
| 7440-50-8 | Copper___ | J 13.2 | B | | P |
| 7439-89-6 | Iron_____ | 7010 | | | P |
| 7439-92-1 | Lead_____ | 1.3 | B | | P |
| 7439-95-4 | Magnesium | J 74300 | | | P |
| 7439-96-5 | Manganese | 141 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 24.3 | B | | P |
| 7440-09-7 | Potassium | J 118000 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 415000 | | E | P |
| 7440-28-0 | Thallium_ | 4 2.8 | B | | P |
| 7440-62-2 | Vanadium_ | 1.1 | B | | P |
| 7440-66-6 | Zinc_____ | 4 17.9 | B | | P |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW15-03

9/23/97

ı ıme: IEA-NC Method: SOW 1/91

Code: IEA Case No.: 2240-080 SDG No.: 09367

r ‹: (soil/water) WATER Lab Sample ID: 970936707

ple wt/vol: 5 (g/mL) ml Lab File ID: 0926108.D

e : (low/med) LOW Date Received: 09/24/97

oisture: not dec. Date Analyzed: 09/26/97

Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

l Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| -83-9 | Bromomethane | UJ | 10 | U |
| -01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| -64-1 | Acetone | | 10 | U |
| -15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 0-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| -66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| -93-3 | 2-Butanone | | 10 | U |
| 5-6 | 1,1,1-Trichloroethane | | 10 | U |
| 3-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| -87-5 | 1,2-Dichloropropane | | 10 | U |
| 061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 24-48-1 | Dibromochloromethane | | 10 | U |
| -00-5 | 1,1,2-Trichloroethane | | 10 | U |
| -43-2 | Benzene | | 4 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 5-25-2 | Bromoform | | 10 | U |
| 08-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 08-88-3 | Toluene | | 10 | U |
| 9-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 00-41-4 | Ethylbenzene | | 10 | U |
| 00-42-5 | Styrene | | 10 | U |
| 330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

1B

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 26 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | UJ 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | U | 27 | B |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM15

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_236.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926108.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.24 | 17 | JN |

FORM I VOA-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW15-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936707

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007613.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.85 | 7 | J |
| | Unknown | 10.74 | 9 | J |
| | Unknown | 11.15 | 10 | J |
| | Unknown | 12.64 | 6 | J |
| | Unknown | 12.72 | 3 | J |
| | Unknown | 13.69 | 2 | J |
| | Unknown | 16.30 | 3 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.93 | 9 | JN |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.50 | 2 | JN |
| | Unknown | 18.82 | 3 | J |
| | Unknown | 19.73 | 5 | J |
| | Unknown | 20.95 | 4 | J |
| | Unknown | 21.37 | 2 | J |
| 000057-10-3 | HEXADECANOIC ACID | 21.80 | 3 | JNX |
| 000050-06-6 | PHENOBARBITAL | 22.41 | 15 | JN |
| | Unknown | 23.50 | 3 | J |
| 000057-11-4 | OCTADECANOIC ACID | 23.68 | 3 | JN |
| | Unknown | 25.91 | 5 | J |

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW18-03

MW18

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Date Sampled: 9/30/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002007

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 35.7 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 31.6 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 64200 | | | P_ |
| 7440-47-3 | Chromium_ | 70.6 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 12.9 | B | | P_ |
| 7439-89-6 | Iron____ | U 208 | | | P_ |
| 7439-92-1 | Lead____ | 14.4 | | | P_ |
| 7439-95-4 | Magnesium | 18900 | | | P_ |
| 7439-96-5 | Manganese | 85.4 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 6.2 | B | | P_ |
| 7440-09-7 | Potassium | J 3220 | B | E | P_ |
| 7782-49-2 | Selenium_ | 3.9 | B | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 67500 | | E | P_ |
| 7440-28-0 | Thallium_ | U 2.8 | B | | P_ |
| 7440-62-2 | Vanadium_ | 1.5 | B | | P_ |
| 7440-66-6 | Zinc____ | U 20.2 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW18-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V14.D

Level: (low/med) LOW Date Received: 10/01/97 (1)

% Moisture: not dec. Date Analyzed: 10/03/97 (3)

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 21 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW18-03

MW18

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_276.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER=1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

ACS-GWMW18-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002007

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F14.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 8.81 | JN 3 | J |
| | UNKNOWN | 9.67 | ↓ 5 | J |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW19-03

MW19

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/30/97

I-b Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002008

I vel (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 402 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 27.2 | | | P_ |
| 7440-39-3 | Barium___ | 648 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 85300 | | | P_ |
| 7440-47-3 | Chromium_ | 8.2 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.5 | B | | P_ |
| 7440-50-8 | Copper___ | 184 | | | P_ |
| 7439-89-6 | Iron____ | 4660 | | | P_ |
| 7439-92-1 | Lead____ | 2.4 | B | | P_ |
| 7439-95-4 | Magnesium | 63900 | | | P_ |
| 7439-96-5 | Manganese | 243 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 17.0 | B | | P_ |
| 7440-09-7 | Potassium | J 98000 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 719000 | | E | P_ |
| 7440-28-0 | Thallium_ | U 4.7 | B | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 16.1 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 18 | |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 1 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 31 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 12 | |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW19-03

MW19

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_277.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.45 | JN 21 | JN |
| 000060-29-7 | ETHER | 4.58 | J 5 | JN |

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW19-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002008

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F15.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.18 | JN 6 | J |
| | UNKNOWN | 9.25 | 5 | J |
| | UNKNOWN | 9.67 | 5 | J |
| | UNKNOWN | 11.15 | 5 | J |
| | UNKNOWN | 12.55 | 10 | J |
| | UNKNOWN | 13.44 | 6 | J |
| | UNKNOWN | 14.70 | 5 | J |
| | UNKNOWN | 15.03 | 15 | J |
| | UNKNOWN | 15.47 | 6 | J |
| | UNKNOWN | 15.54 | 3 | J |
| | UNKNOWN | 15.93 | 5 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.70 | 33 | JN |
| | UNKNOWN | 18.63 | 8 | J |
| | UNKNOWN | 19.28 | 3 | J |
| | UNKNOWN | 20.74 | 3 | |
| 000115-38-8 | MEPHOBARBITAL | 21.47 | 4 | JN |
| | UNKNOWN | 21.59 | 7 | J |
| 000050-06-6 | PHENOBARBITAL | 22.25 | 65 | JN |
| | UNKNOWN | 25.04 | 4 | J |
| | UNKNOWN | 25.66 | 4 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW37-03
MW37
9-26-97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

atrix (soil/water): WATER Lab Sample ID: 970945015

evel (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1,310 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.1 | B | | P |
| 7440-39-3 | Barium___ | 34.3 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 84,200 | | | P |
| 7440-47-3 | Chromium_ | 6.8 | B | | P |
| 7440-48-4 | Cobalt___ | 5.5 | B | | P |
| 7440-50-8 | Copper___ | 12.5 | B | | P |
| 7439-89-6 | Iron_____ | 9440 | | | P |
| 7439-92-1 | Lead_____ | u 4.1 | | | P |
| 7439-95-4 | Magnesium | 26600 | | | P |
| 7439-96-5 | Manganese | 682 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.8 | B | | P |
| 7440-09-7 | Potassium | J 2060 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 17300 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 3.4 | B | | P |
| 7440-66-6 | Zinc_____ | u 23.7 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

olor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V07.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 4.5 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW37

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

l atrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_161.D

: Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

( ncentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

G.C Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V07.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945015

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW37-93
MW379
9-26-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970945016

Level (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1110 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.9 | B | | P_ |
| 7440-39-3 | Barium___ | 34.3 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 87,000 | | | P_ |
| 7440-47-3 | Chromium_ | 5.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 5.7 | B | | P_ |
| 7440-50-8 | Copper___ | 11.9 | B | | P_ |
| 7439-89-6 | Iron____ | 9890 | | | P_ |
| 7439-92-1 | Lead____ | u 3.9 | | | P_ |
| 7439-95-4 | Magnesium | 27,100 | | | P_ |
| 7439-96-5 | Manganese | 705 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 13.2 | B | | P_ |
| 7440-09-7 | Potassium | J 1990 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 17,700 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.1 | B | | P_ |
| 7440-66-6 | Zinc____ | u 22.0 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | U5 | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

FORM I SV-2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW379

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_162.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V08.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALIDATED

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW37-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945016

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F09.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.22~~ | ~~2~~ | ~~J~~ BR |

VALIDATED

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW38-03
MW38
9-25-97

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

M trix (soil/water): WATER Lab Sample ID: 970942504

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1280 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 5.3 | B | | P_ |
| 7440-39-3 | Barium___ | 53.9 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 57,800 | | | P_ |
| 7440-47-3 | Chromium_ | 8.8 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.4 | B | | P_ |
| 7440-50-8 | Copper___ | 14.1 | B | | P_ |
| 7439-89-6 | Iron____ | 16,200 | _ | | P_ |
| 7439-92-1 | Lead____ | 10.0 | _ | | P_ |
| 7439-95-4 | Magnesium | 20,500 | _ | | P_ |
| 7439-96-5 | Manganese | 594 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.3 | B | | P_ |
| 7440-09-7 | Potassium | J 959 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | U 7380 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 14.2 | B | | P_ |
| 7440-66-6 | Zinc____ | 56.1 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

C lor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

C lor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03
9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K04.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 10 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW38

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_140.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K04.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW38-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010605.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.34~~ | ~~5~~ | ~~J~~ BR |
| | Unknown | 9.78 | 2 | J |
| | Unknown | 13.54 | 3 | J |
| 000134-62-3 | DIETHYLTOLUAMIDE | 17.76 | 4 | JN |
| | DEET ? | | | |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW39-03
MW39
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942505

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 366 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 77.7 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 110,000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 6.9 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | u 3.6 | B | | P_ |
| 7439-89-6 | Iron_____ | 7300 | | | P_ |
| 7439-92-1 | Lead_____ | u 1.6 | B | | P_ |
| 7439-95-4 | Magnesium | 19,200 | _ | | P_ |
| 7439-96-5 | Manganese | 802 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 7.3 | B | | P_ |
| 7440-09-7 | Potassium | J 8190 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 123,000 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_____ | u 12.8 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K05.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 2 | J |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 4 | J |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 4 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 33 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |



VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW39

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_141.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K05.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALIDATED

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW39-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942505

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010606.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 11

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.77 | 6 | J |
| | Unknown | 10.68 | 6 | J |
| | Unknown | 10.97 | 2 | J |
| | Unknown | 13.19 | 3 | J |
| | Unknown | 13.60 | 6 | J |
| | Unknown | 13.73 | 3 | J |
| | Unknown | 17.00 | 12 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROPHENOXY) | 17.80 | 2 | JN |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.38 | 2 | JN |
| 000070-55-3 | BENZENESULFONAMIDE, 4-METHYL | 18.84 | 5 | JN |
| | Unknown | 25.77 | 9 | J |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW40-03
MW40
9/29/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947319

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 2140 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 23.8 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 34100 | _ | | P_ |
| 7440-47-3 | Chromium_ | 5.4 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.9 | B | | P_ |
| 7440-50-8 | Copper___ | 20.6 | B | | P_ |
| 7439-89-6 | Iron_____ | 6430 | _ | | P_ |
| 7439-92-1 | Lead_____ | u 7.8 | _ | | P_ |
| 7439-95-4 | Magnesium | 14100 | _ | | P_ |
| 7439-96-5 | Manganese | 198 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 9.9 | B | | P_ |
| 7440-09-7 | Potassium | J 2220 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | u 5560 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 11.8 | B | | P_ |
| 7440-66-6 | Zinc_____ | u 35.1 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03 9-29-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V04.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 20 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW40

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

I b Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

S mple wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_164.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

C ncentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

C C Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V04.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALID

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947319

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015614.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.34 | 3 | J |
| | Unknown | 9.71 | 3 | J |
| | Unknown | 13.52 | 3 | J |
| 000057-10-3 | ~~HEXADECANOIC ACID~~ | ~~21.61~~ | ~~7~~ | ~~JNXB~~ R |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW40-93
MW409
9-29-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970947320

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 510 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 28.3 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 37,700 | | | P_ |
| 7440-47-3 | Chromium_ | 3.4 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.4 | B | | P_ |
| 7440-50-8 | Copper___ | u 3.4 | B | | P_ |
| 7439-89-6 | Iron____ | 1810 | _ | | P_ |
| 7439-92-1 | Lead____ | u 5.4 | _ | | P_ |
| 7439-95-4 | Magnesium | 11800 | _ | | P_ |
| 7439-96-5 | Manganese | 561 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 5.1 | B | | P_ |
| 7440-09-7 | Potassium | J 1180 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | u 4950 | B | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.6 | B | | P_ |
| 7440-66-6 | Zinc____ | u 14.8 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93 9-29-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | U | 15 | |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | U 7 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Napnthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenapnthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW409

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_165.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V11.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | ~~UNKNOWN HYDROCARBON~~ | ~~2.78~~ | ~~11~~ | ~~J~~ RB |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW40-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970947320

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015615.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.61~~ | ~~5~~ | ~~JNXB~~ |

R

VALIDATED

FORM I SV-TIC

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW41-03

MW41

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER Lab Sample ID: 971002009

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 486 | | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 27.8 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 55200 | | | P |
| 7440-47-3 | Chromium | 7.0 | B | | P |
| 7440-48-4 | Cobalt | 1.3 | B | | P |
| 7440-50-8 | Copper | 11.6 | B | | P |
| 7439-89-6 | Iron | 861 | | | P |
| 7439-92-1 | Lead | 3.2 | | | P |
| 7439-95-4 | Magnesium | 18500 | | | P |
| 7439-96-5 | Manganese | 280 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 7.8 | B | | P |
| 7440-09-7 | Potassium | J 964 | B | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | WJ 9560 | | E | P |
| 7440-28-0 | Thallium | U 2.4 | B | | P |
| 7440-62-2 | Vanadium | 1.3 | B | | P |
| 7440-66-6 | Zinc | U 30.3 | | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW41-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K04.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW41-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017606.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 34 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED SAMPLE NO.

ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017606.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW41-03

MW41

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_280.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.
ACS-GWMW41-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002009

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K04.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.82 | JN 5 | JN |

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW41-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971002009

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1017606.D

Level: (low/med) LOW  Date Received: 10/01/97

% Moisture: decanted: (Y/N)  Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/17/97

Injection Volume: 2 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH:

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.63 | JN 6 | J |
| | UNKNOWN | 13.07 | ↓ 2 | J |
| | ~~UNKNOWN~~ | ~~13.14~~ | ~~B 8~~ | ~~JB~~ |
| | UNKNOWN | 13.47 | JN 5 | J |
| | ~~UNKNOWN~~ | ~~13.86~~ | ~~B 11~~ | ~~JB~~ |
| ~~001002-84-2~~ | ~~PENTADECANOIC ACID~~ | ~~21.52~~ | ~~B 3~~ | ~~JNX~~ |

FORM I SV-TIC

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW42-03
MW42
9-26-97

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

N trix (soil/water): WATER Lab Sample ID: 970945013

I vel (low/med): LOW__ Date Received: 09/27/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1,880 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 13.1 | | | P_ |
| 7440-39-3 | Barium___ | 96.6 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 118,000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 14.5 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 2.5 | B | | P_ |
| 7440-50-8 | Copper___ | 21.9 | B | | P_ |
| 7439-89-6 | Iron____ | 11100 | _ | | P_ |
| 7439-92-1 | Lead____ | u 5.7 | _ | | P_ |
| 7439-95-4 | Magnesium | 44400 | _ | | P_ |
| 7439-96-5 | Manganese | 697 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.4 | B | | P_ |
| 7440-09-7 | Potassium | J 2350 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 18,000 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 4.0 | B | | P_ |
| 7440-66-6 | Zinc____ | u 30.4 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | __ |

C lor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

C lor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V05.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | J ~~U~~ JAH 41 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW42

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_159.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V05.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 23.85 | 6 | J |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW42-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.67 | 5 | J |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW46-03
MW46
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942507

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 186 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.8 | B | | P_ |
| 7440-39-3 | Barium___ | 126 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 115,000 | | | P_ |
| 7440-47-3 | Chromium_ | 1.9 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.6 | B | | P_ |
| 7439-89-6 | Iron____ | 19,000 | | | P_ |
| 7439-92-1 | Lead____ | U 1.6 | B | | P_ |
| 7439-95-4 | Magnesium | 30,900 | | | P_ |
| 7439-96-5 | Manganese | 1390 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 4.4 | B | | P_ |
| 7440-09-7 | Potassium | J 1190 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 70,000 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 11.8 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03 9-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | UJ | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | UJ | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 75 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 50 | U |
| 132-64-9 | Dibenzofuran | | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 20 | U |
| 84-66-2 | Diethylphthalate | | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 20 | U |
| 86-73-7 | Fluorene | | 20 | U |
| 100-01-6 | 4-Nitroaniline | | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 20 | U |
| 118-74-1 | Hexachlorobenzene | UJ | 20 | U |
| 87-86-5 | Pentachlorophenol | | 50 | U |
| 85-01-8 | Phenanthrene | | 20 | U |
| 120-12-7 | Anthracene | | 20 | U |
| 86-74-8 | Carbazole | | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | | 20 | U |
| 206-44-0 | Fluoranthene | | 20 | U |
| 129-00-0 | Pyrene | | 20 | U |
| 85-68-7 | Butylbenzylphthalate | | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | | 20 | U |
| 218-01-9 | Chrysene | | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 20 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW43

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_160.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/09/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V06.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW43-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970945014

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017603.D

Level: (low/med) LOW Date Received: 09/27/97

% Moisture: decanted: (Y/N) Date Extracted: 09/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.62 | 10 | J |
| | Unknown | 13.44 | 5 | J |

VALIDATED

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW44-03

MW44

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 9/30/97

Matrix (soil/water): WATER Lab Sample ID: 971002113

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 457 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic | 11.2 | | | P_ |
| 7440-39-3 | Barium | 112 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium | 1.0 | U | | P_ |
| 7440-70-2 | Calcium | 83300 | | | P_ |
| 7440-47-3 | Chromium_ | U 4.0 | B | | P_ |
| 7440-48-4 | Cobalt | 1.0 | U | | P_ |
| 7440-50-8 | Copper | 3.9 | B | | P_ |
| 7439-89-6 | Iron | 2510 | | | P_ |
| 7439-92-1 | Lead | 1.0 | U | | P_ |
| 7439-95-4 | Magnesium | 34500 | | | P_ |
| 7439-96-5 | Manganese | 44.2 | | | P_ |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | U 3.6 | B | | P_ |
| 7440-09-7 | Potassium | J 1370 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver | 1.0 | U | | P_ |
| 7440-23-5 | Sodium | J 18900 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc | U 12.1 | B | | P_ |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 0947

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V11.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER=1.00

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

| CAS NO. | COMPOUND | | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW44-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021811.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 11 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | J | 9 | J |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021811.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 15 | |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW44-03

MW44

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_274.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1B

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

VALIDATED

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V11.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW44-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002113

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021811.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | JN 2 | JN |
| | SUBSTITUTED ETHANOL ISOMER | 13.53 | 18 | J |
| | UNKNOWN | 14.12 | 2 | J |
| | UNKNOWN | 14.30 | 2 | J |
| | UNKNOWN | 14.75 | 7 | J |
| | UNKNOWN | 14.87 | 2 | J |
| 000057-10-3 | HEXADECANOIC ACID | 23.46 | 3 | JNX |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW45-03

MW45

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/30/97

I b Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002010

I vel (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | U 100 | B | | P |
| 7440-36-0 | Antimony | 1.0 | U | | P |
| 7440-38-2 | Arsenic | 43.5 | | | P |
| 7440-39-3 | Barium | 110 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 112000 | | | P |
| 7440-47-3 | Chromium | U 3.0 | B | | P |
| 7440-48-4 | Cobalt | 3.4 | B | | P |
| 7440-50-8 | Copper | 9.1 | B | | P |
| 7439-89-6 | Iron | 15900 | | | P |
| 7439-92-1 | Lead | 8.8 | | | P |
| 7439-95-4 | Magnesium | 28400 | | | P |
| 7439-96-5 | Manganese | 480 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 9.5 | B | | P |
| 7440-09-7 | Potassium | J 8350 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 101000 | | E | P |
| 7440-28-0 | Thallium | 2.0 | U | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | U 16.0 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW45-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97 3

GC Column: DB-624 ID: .530(mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 8.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 80 | U |
| 74-83-9 | Bromomethane | 80 | U |
| 75-01-4 | Vinyl Chloride | 80 | U |
| 75-00-3 | Chloroethane | 120 | |
| 75-09-2 | Methylene Chloride | 80 | U |
| 67-64-1 | Acetone | 80 | U |
| 75-15-0 | Carbon Disulfide | 80 | U |
| 75-35-4 | 1,1-Dichloroethene | 80 | U |
| 75-34-3 | 1,1-Dichloroethane | 80 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 80 | U |
| 67-66-3 | Chloroform | 80 | U |
| 107-06-2 | 1,2-Dichloroethane | 80 | U |
| 78-93-3 | 2-Butanone | 80 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 80 | U |
| 56-23-5 | Carbon Tetrachloride | 80 | U |
| 75-27-4 | Bromodichloromethane | 80 | U |
| 78-87-5 | 1,2-Dichloropropane | 80 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 80 | U |
| 79-01-6 | Trichloroethene | 80 | U |
| 124-48-1 | Dibromochloromethane | 80 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 80 | U |
| 71-43-2 | Benzene | 860 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 80 | U |
| 75-25-2 | Bromoform | 80 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 80 | U |
| 591-78-6 | 2-Hexanone | 80 | U |
| 127-18-4 | Tetrachloroethene | 80 | U |
| 108-88-3 | Toluene | 80 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 80 | U |
| 108-90-7 | Chlorobenzene | J 26 | J |
| 100-41-4 | Ethylbenzene | 80 | U |
| 100-42-5 | Styrene | 80 | U |
| 1330-20-7 | Xylene (total) | J 33 | J |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.
ACS-GWMW45-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021808.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 (3)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97 (18)

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 2.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW45-03

MW45

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED. 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_281.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW45-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 8.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | SUBSTITUTED BENZENE | 22.38 | JN 260 | J |
| | SUBSTITUTED BENZENE | 23.38 | 72 | J |
| | UNKNOWN AROMATIC | 23.80 | 55 | J |
| 000091-20-3 | NAPHTHALENE | 27.46 | 150 | JN |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW45-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021808.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000103-65-1 | BENZENE, PROPYL- | 9.30 | JN 11 | JN |
| | TRIMETHYL BENZENE ISOMER | 9.59 | 20 | J |
| | TRIMETHYL BENZENE ISOMER | 10.12 | 150 | J |
| | TRIMETHYL BENZENE ISOMER | 10.69 | 63 | J |
| | UNKNOWN | 11.66 | 36 | J |
| | TETRAMETHYL BENZENE ISOMER | 12.47 | 10 | J |
| | SUBSTITUTED METHYLINDENE ISOMER | 12.84 | 6 | J |
| | SUBSTITUTED METHYLINDENE ISOMER | 13.04 | 14 | J |
| | SUBSTITUTED ETHANOL ISOMER | 13.54 | 16 | J |
| | UNKNOWN | 14.76 | 7 | J |
| 000090-12-0 | NAPHTHALENE, 1-METHYL- | 15.72 | 10 | JN |
| | METHYLATED BENZOIC ACID ISOMER | 16.05 | 6 | J |
| | SUBSTITUTED BENZENE ISOMER | 16.36 | 17 | J |
| | METHYLATED BENZOIC ACID ISOMER | 16.84 | 8 | J |
| | UNKNOWN | 17.75 | 5 | J |
| | UNKNOWN | 18.08 | 32 | J |
| | UNKNOWN | 18.51 | 9 | J |
| | UNKNOWN | 18.97 | 5 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 19.29 | 14 | JN |
| 000057-10-3 | HEXADECANOIC ACID | 23.47 | 5 | JNX |

→ 000101-10-0 PROPANOIC ACID, 2-(3-CHLOROPHENOXY) 19.29 JN 14 JN

FORM I SV-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03 9-24-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K07.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 2 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | J |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

FORM I SV-2

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW46

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_143.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K07.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000108-20-3 | DIISOPROPYL ETHER | 7.67 | 13 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW46-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942507

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015612.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 015980-15-1 | 1,4-OXATHIANE | 7.02 | 2 | JN |
| | Unknown | 10.60 | 6 | J |
| 000088-19-7 | BENZENESULFONAMIDE, 2-METHYL | 18.30 | 3 | JN |
| 000070-55-3 | BENZENESULFONAMIDE, 4-METHYL | 18.75 | 3 | JN |
| | Unknown | 21.70 | 3 | J |

VALIDATED

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

ACS-GWMW47-03
MW47
10-1-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971004702

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 724 | _ | N | P_ |
| 7440-36-0 | Antimony_ | U 1.2 | B | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 12.6 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 13700 | | | P_ |
| 7440-47-3 | Chromium_ | U 2.1 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.7 | B | | P_ |
| 7440-50-8 | Copper___ | 6.0 | B | | P_ |
| 7439-89-6 | Iron____ | 569 | _ | | P_ |
| 7439-92-1 | Lead____ | 8.3 | _ | | P_ |
| 7439-95-4 | Magnesium | 3990 | B | | P_ |
| 7439-96-5 | Manganese | 17.2 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 3.4 | B | | P_ |
| 7440-09-7 | Potassium | J 959 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | U 6750 | | | P_ |
| 7440-28-0 | Thallium_ | U 4.3 | B | | P_ |
| 7440-62-2 | Vanadium_ | 1.9 | B | | P_ |
| 7440-66-6 | Zinc____ | U 19.5 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03 10-1-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 39 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | u5 | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | u | 3 | J |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW47

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_045.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V13.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW47-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004702

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009604.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.40 | 2 | J |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.79 | 10 | JN |
| | UNKNOWN | 13.58 | 3 | J |
| | UNKNOWN | 23.96 | 2 | J |

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW48-03

MW48

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/30/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 971002011

Level (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 330 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 12.5 | | | P_ |
| 7440-39-3 | Barium___ | 141 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 107000 | | | P_ |
| 7440-47-3 | Chromium_ | 7.8 | B | | P_ |
| 7440-48-4 | Cobalt___ | 3.5 | B | | P_ |
| 7440-50-8 | Copper___ | 13.4 | B | | P_ |
| 7439-89-6 | Iron____ | 24500 | | | P_ |
| 7439-92-1 | Lead____ | 7.7 | | | P_ |
| 7439-95-4 | Magnesium | 15100 | | | P_ |
| 7439-96-5 | Manganese | 504 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 19.0 | B | | P_ |
| 7440-09-7 | Potassium | J 8270 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 42700 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.6 | B | | P_ |
| 7440-66-6 | Zinc____ | 4 52.9 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW48-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V09.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 50.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 500 | U |
| 74-83-9 | Bromomethane | 500 | U |
| 75-01-4 | Vinyl Chloride | 500 | U |
| 75-00-3 | Chloroethane | 980 | |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 500 | 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 |
| 107-06-2 | 1,2-Dichloroethane | 500 | U |
| 78-93-3 | 2-Butanone | 500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | 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 | 9500 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 500 | U |
| 591-78-6 | 2-Hexanone | 500 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 108-88-3 | Toluene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 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 |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

WATER CLIENT SAMPLE NO.

ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) **WATER** Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017609.D

Level: (low/med) **LOW** Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97 3

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97 4

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 8 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW48-03

MW48

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_282.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VALIDATED SAMPLE NO.

ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V09.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW48-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017609.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.68 | JN 11 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETHYL- | 9.92 | 290 | JN |
| | UNKNOWN | 11.05 | 16 | J |
| | UNKNOWN | 11.58 | 19 | J |
| | UNKNOWN | 11.75 | 14 | J |
| | METHYLATED BENZOIC ACID ISOMER | 13.71 | 9 | J |
| | CHLORINATED BENZOIC ACID ISOMER | 14.74 | 67 | J |
| | UNKNOWN | 15.04 | 23 | J |
| | UNKNOWN | 15.23 | 28 | J |
| 000499-06-9 | BENZOIC ACID, 3,5-DIMETHYL- | 15.49 | 12 | JN |
| | UNKNOWN | 15.93 | 12 | J |
| | UNKNOWN | 16.42 | 12 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.65 | 23 | JN |
| | UNKNOWN | 16.93 | 210 | J |
| | UNKNOWN | 16.99 | 8 | J |
| | UNKNOWN | 17.33 | 15 | J |
| 000076-73-3 | SECOBARBITAL | 20.22 | 19 | JN |
| | UNKNOWN | 21.12 | 27 | J |
| | UNKNOWN | 25.00 | 12 | J |
| | UNKNOWN | 25.64 | 54 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW49-03

MW49

9/24/97

a' Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

a rix (soil/water): WATER Lab Sample ID: 970939914

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

olids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1130 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 37.3 | | | P_ |
| 7440-39-3 | Barium___ | 120 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 80300 | | | P_ |
| 7440-47-3 | Chromium_ | 9.6 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.5 | B | | P_ |
| 7440-50-8 | Copper___ | J 6.3 | B | | P_ |
| 7439-89-6 | Iron_____ | 28200 | | | P_ |
| 7439-92-1 | Lead_____ | 3.3 | | | P_ |
| 7439-95-4 | Magnesium | J 9980 | | | P_ |
| 7439-96-5 | Manganese | 2210 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 11.7 | B | | P_ |
| 7440-09-7 | Potassium | J 5480 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 25800 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.8 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 44.0 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-03

9/24/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930108.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: .53 (mm) Dilution Factor: 40

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 400 | U |
| 74-83-9 | Bromomethane | | 400 | U |
| 75-01-4 | Vinyl Chloride | | 400 | U |
| 75-00-3 | Chloroethane | | 810 | |
| 75-09-2 | Methylene Chloride | UJ | 400 | U |
| 67-64-1 | Acetone | | 400 | U |
| 75-15-0 | Carbon Disulfide | UJ | 400 | U |
| 75-35-4 | 1,1-Dichloroethene | | 400 | U |
| 75-34-3 | 1,1-Dichloroethane | | 400 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 400 | U |
| 67-66-3 | Chloroform | | 400 | U |
| 107-06-2 | 1,2-Dichloroethane | | 400 | U |
| 78-93-3 | 2-Butanone | | 400 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 400 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 400 | U |
| 75-27-4 | Bromodichloromethane | | 400 | U |
| 78-87-5 | 1,2-Dichloropropane | | 400 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 400 | U |
| 79-01-6 | Trichloroethene | | 400 | U |
| 124-48-1 | Dibromochloromethane | | 400 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 400 | U |
| 71-43-2 | Benzene | | 8200 | E |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 400 | U |
| 75-25-2 | Bromoform | | 400 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 400 | U |
| 591-78-6 | 2-Hexanone | UJ | 400 | U |
| 127-18-4 | Tetrachloroethene | | 400 | U |
| 108-88-3 | Toluene | | 400 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 400 | U |
| 108-90-7 | Chlorobenzene | | 400 | U |
| 100-41-4 | Ethylbenzene | | 400 | U |
| 100-42-5 | Styrene | | 400 | U |
| 1330-20-7 | Xylene (total) | | 400 | U |

1B

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW49-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-080  SDG No.: 09367

Matrix: (soil/water) WATER  Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml  Lab File ID: 1009611.D

Level: (low/med) LOW  Date Received: 09/25/97

% Moisture: decanted: (Y/N)  Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL)  Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL)  Dilution Factor: 2.0

GPC Cleanup: (Y/N) N  pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 130 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 13 | J |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 30 | |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 6 | J |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW49-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 1 | J |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 11 | J |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW49

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_242.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW49-03

ıe Name: IEA-NC Method: SOW 1/91

ıab Code: IEA Case No.: 2240-080 SDG No.: 09367

ıe rix: (soil/water) WATER Lab Sample ID: 970939914

ıample wt/vol: 5 (g/mL) ml Lab File ID: 0930108.D

ıe el: (low/med) LOW Date Received: 09/25/97

Moisture: not dec. Date Analyzed: 09/30/97

C Column: DB-624 ID: .53(mm) Dilution Factor: 40.0

c l Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

ı er TICs Found: 1

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

| AS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 24.40 | 200 | J |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939914

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 004740-00-5 | THIOPHENE, TETRAHYDRO-3-METH | 6.77 | 14 | JN |
| | Unknown | 7.15 | 8 | J |
| | Unknown | 7.51 | 8 | J |
| 000541-85-5 | 3-HEPTANONE, 5-METHYL- | 8.21 | 15 | JN |
| | Unknown | 9.77 | 9 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETH | 10.11 | 1100 | JN |
| | Unknown | 10.69 | 21 | J |
| | Unknown | 11.06 | 21 | J |
| | Unknown | 11.68 | 10 | J |
| | Unknown | 13.58 | 13 | J |
| 000112-26-5 | ETHANE, 1,2-BIS(2-CHLOROETHO | 13.76 | 16 | JN |
| | Unknown | 14.41 | 13 | J |
| | Chlorobenzoic acid isomer | 14.71 | 24 | J |
| | Unknown | 14.91 | 10 | J |
| | Substituted Benzene Isomer | 17.08 | 180 | J |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLS | 17.43 | 9 | JN |
| | Unknown | 17.48 | 8 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.83 | 9 | JN |
| | Unknown | 21.28 | 40 | J |
| | Unknown | 25.81 | 74 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW49-93
MW499
9-24-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970940302

Level (low/med): LOW__ Date Received: 09/25/97

Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1010 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 39.1 | _ | | P_ |
| 7440-39-3 | Barium___ | 149 | B | | P_ |
| 7440-41-7 | Beryllium | 1.1 | B | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 84,300 | _ | | P_ |
| 7440-47-3 | Chromium_ | 13.2 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 1.6 | B | | P_ |
| 7440-50-8 | Copper___ | 12.5 | B | | P_ |
| 7439-89-6 | Iron____ | 29,200 | _ | | P_ |
| 7439-92-1 | Lead____ | U 4.3 | _ | | P_ |
| 7439-95-4 | Magnesium | 10,700 | _ | | P_ |
| 7439-96-5 | Manganese | 2450 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 14.9 | B | | P_ |
| 7440-09-7 | Potassium | J 6320 | _ | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 28,000 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.9 | B | | P_ |
| 7440-66-6 | Zinc____ | U 34.9 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | _ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93
9-24-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V05.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 500 | U |
| 74-83-9 | Bromomethane | 500 | U |
| 75-01-4 | Vinyl Chloride | 500 | U |
| 75-00-3 | Chloroethane | 520 | |
| 75-09-2 | Methylene Chloride | 500 | U |
| 67-64-1 | Acetone | 500 | 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 |
| 107-06-2 | 1,2-Dichloroethane | 500 | U |
| 78-93-3 | 2-Butanone | 500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 500 | U |
| 56-23-5 | Carbon Tetrachloride | 500 | 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 | 5300 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 500 | U |
| 75-25-2 | Bromoform | 500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 500 | U |
| 591-78-6 | 2-Hexanone | 500 | U |
| 127-18-4 | Tetrachloroethene | 500 | U |
| 108-88-3 | Toluene | 500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 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 |



VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | 120 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | J | 25 | |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | uJ | 20 | U |
| 67-72-1 | Hexachloroethane | uJ | 20 | U |
| 98-95-3 | Nitrobenzene | | 20 | U |
| 78-59-1 | Isophorone | | 6 | J |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | uJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | uJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |



VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW499

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_139.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V05.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 50.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW49-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970940302

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 004740-00-5 | THIOPHENE, TETRAHYDRO-3-METHYL- | 6.75 | 10 | JN |
| | Unknown | 8.19 | 15 | J |
| | Unknown | 9.36 | 7 | J |
| | Unknown | 9.85 | 10 | J |
| | Unknown | 10.68 | 23 | J |
| | Unknown | 11.07 | 19 | J |
| | Unknown | 11.68 | 9 | J |
| | Unknown | 11.78 | 8 | J |
| | Unknown | 12.54 | 7 | J |
| | Unknown | 12.83 | 24 | J |
| | Unknown | 13.32 | 7 | J |
| | Unknown | 13.61 | 10 | J |
| 000112-26-5 | ETHANE, 1,2-BIS(2-CHLOROETHOXY)- | 13.75 | 14 | JN |
| | Chlorobenzoic acid isomer | 14.71 | 24 | J |
| | Unknown | 14.90 | 8 | J |
| | Unknown | 17.07 | 170 | J |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLSULFONYL)- | 17.43 | 7 | JN |
| | Unknown | 17.48 | 10 | J |
| | Unknown | 21.28 | 40 | J |
| | Unknown | 25.81 | 70 | J |

FORM I SV-TIC

VALIDATE

# APPENDIX E

# LOWER AQUIFER LABORATORY DATA

*One copy of Appendix E has been provided to U.S. EPA, IDEM, and B&VWS. Additional copies of the appendix are available upon request to Montgomery Watson.*

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWM4D-03

WM4D

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

9/23/97

Matrix (soil/water): WATER Lab Sample ID: 970936706

VALIDATED

Level (low/med): LOW__ Date Received: 09/24/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1140 | _ | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 177 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 88000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 13.7 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 1.2 | B | | P_ |
| 7440-50-8 | Copper___ | U 4.2 | B | | P_ |
| 7439-89-6 | Iron____ | 2990 | _ | | P_ |
| 7439-92-1 | Lead____ | 3.1 | _ | | P_ |
| 7439-95-4 | Magnesium | J 41000 | _ | | P_ |
| 7439-96-5 | Manganese | 56.4 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 11.6 | B | | P_ |
| 7440-09-7 | Potassium | J 4640 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 70600 | _ | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 2.0 | B | | P_ |
| 7440-66-6 | Zinc____ | U 13.1 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: YELLOW___ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-060 9/23/97 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926107.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | UJ 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | UJ 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | [redacted] | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 ~~2~~ | JB |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM4D

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_235.D

Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926107.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWM4D-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936706

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007609.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.78 | 2 | J |
| | Unknown | 9.80 | 2 | J |
| | Unknown | 9.85 | 4 | J |
| | Unknown | 11.23 | 58 | J |
| | Unknown | 12.59 | 3 | J |
| | Unknown | 13.35 | 2 | J |
| | Unknown | 14.08 | 6 | J |
| | Substituted Benzene Isomer | 17.06 | 4 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.86 | 3 | JN |

FORM I SV-TIC

INORGANIC ANALYSES DATA SHEET

ACS-GWMW07-03

MW07

9/24/97

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

a Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

a rix (soil/water): WATER Lab Sample ID: 970940119

evel (low/med): LOW__ VALIDATED Date Received: 09/25/97

olids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1280 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 132 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 102000 | | | P |
| 7440-47-3 | Chromium_ | 44.0 | | | P |
| 7440-48-4 | Cobalt___ | 1.9 | B | | P |
| 7440-50-8 | Copper___ | J 11.3 | B | | P |
| 7439-89-6 | Iron_____ | 5570 | | | P |
| 7439-92-1 | Lead_____ | 3.9 | | | P |
| 7439-95-4 | Magnesium | J 28600 | | | P |
| 7439-96-5 | Manganese | 205 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 31.0 | B | | P |
| 7440-09-7 | Potassium | J 2190 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 20200 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 2.8 | B | | P |
| 7440-66-6 | Zinc_____ | 4 29.6 | | | P |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-03

9/24/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | 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 | UJ | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | [illegible] | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 48 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW07-03

b Name: IEA-NC Method: SOW 1/91

b Code: IEA Case No.: 2240-080 SDG No.: 09367

trix: (soil/water) WATER Lab Sample ID: 970940119

m le wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

v l: (low/med) LOW Date Received: 09/25/97

Moisture: decanted: (Y/N) Date Extracted: 09/29/97

n entrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

jection Volume: 2.0 (uL) Dilution Factor: 1.0

C Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 5 -28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 1 1-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 8 -66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 1 0-01-6 | 4-Nitroaniline | | 25 | U |
| 5 4-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 1 1-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 1 8-74-1 | Hexachlorobenzene | | 10 | U |
| 8 -86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 1 0-12-7 | Anthracene | | 10 | U |
| 8 -74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 1 9-00-0 | Pyrene | | 10 | U |
| 8 -68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 5 -55-3 | Benzo(A)Anthracene | | 10 | U |
| 2 8-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 2 5-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 2 7-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 5 -70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 1 1-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW07

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_247.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW07-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940119

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 14

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.81 | 3 | J |
| | Unknown | 9.82 | 16 | J |
| 000098-86-2 | ACETOPHENONE | 10.55 | 3 | JN |
| | Unknown | 10.61 | 4 | J |
| | Unknown | 11.42 | 2 | J |
| | Unknown | 13.63 | 2 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.94 | 8 | JN |
| 000122-59-8 | ACETIC ACID, PHENOXY- | 15.42 | 2 | JN |
| | Substituted Benzene Isomer | 16.62 | 2 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.79 | 9 | JN |
| 000098-57-7 | BENZENE, 1-CHLORO-4-(METHYLS | 17.47 | 5 | JN |
| | Unknown | 21.26 | 2 | J |
| 002440-22-4 | DROMETRIZOLE | 23.09 | 18 | JN |
| | Unknown | 30.61 | 2 | J |

FORM I SV-TIC

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW08-03

MW08

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09357_ 9/24/97

Matrix (soil/water): WATER Lab Sample ID: 970939915

Level (low/med): LOW__ VALIDATED Date Received: 09/25/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 839 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 6.1 | B | | P |
| 7440-39-3 | Barium___ | 111 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 55200 | | | P |
| 7440-47-3 | Chromium_ | 36.9 | | | P |
| 7440-48-4 | Cobalt___ | 1.8 | B | | P |
| 7440-50-8 | Copper___ | U 7.3 | B | | P |
| 7439-89-6 | Iron____ | 3420 | | | P |
| 7439-92-1 | Lead____ | 3.1 | | | P |
| 7439-95-4 | Magnesium | J 17700 | | | P |
| 7439-96-5 | Manganese | 134 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 23.2 | B | | P |
| 7440-09-7 | Potassium | J 1410 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 13500 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 2.0 | B | | P |
| 7440-66-6 | Zinc____ | U 33.7 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

9/24/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | 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 | UJ | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 40 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 48 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 20 | U |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW08

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_243.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939915

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009612.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.80 | 33 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.91 | 8 | JN |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW09-03

MW09

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 11/29/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947502

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 863 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 3.4 | B | | P |
| 7440-39-3 | Barium___ | 349 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 155000 | | | P |
| 7440-47-3 | Chromium_ | 12.3 | | | P |
| 7440-48-4 | Cobalt___ | 6.0 | B | | P |
| 7440-50-8 | Copper___ | U 6.0 | B | | P |
| 7439-89-6 | Iron_____ | 16900 | | | P |
| 7439-92-1 | Lead_____ | 2.9 | B | | P |
| 7439-95-4 | Magnesium | 26100 | | | P |
| 7439-96-5 | Manganese | 219 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.6 | B | | P |
| 7440-09-7 | Potassium | J 11000 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 66400 | | E | P |
| 7440-28-0 | Thallium_ | U 2.1 | B | | P |
| 7440-62-2 | Vanadium_ | 5.4 | B | | P |
| 7440-66-6 | Zinc_____ | U 23.4 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: PINK_____ Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 16

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 16.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 160 | U |
| 74-83-9 | Bromomethane | 160 | U |
| 75-01-4 | Vinyl Chloride | 160 | U |
| 75-00-3 | Chloroethane | 1800 | |
| 75-09-2 | Methylene Chloride | 160 | U |
| 67-64-1 | Acetone | 160 | U |
| 75-15-0 | Carbon Disulfide | 160 | U |
| 75-35-4 | 1,1-Dichloroethene | 160 | U |
| 75-34-3 | 1,1-Dichloroethane | 160 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 160 | U |
| 67-66-3 | Chloroform | 160 | U |
| 107-06-2 | 1,2-Dichloroethane | 160 | U |
| 78-93-3 | 2-Butanone | 160 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 160 | U |
| 56-23-5 | Carbon Tetrachloride | 160 | U |
| 75-27-4 | Bromodichloromethane | 160 | U |
| 78-87-5 | 1,2-Dichloropropane | 160 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 160 | U |
| 79-01-6 | Trichloroethene | 160 | U |
| 124-48-1 | Dibromochloromethane | 160 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 160 | U |
| 71-43-2 | Benzene | 290 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 160 | U |
| 75-25-2 | Bromoform | 160 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 160 | U |
| 591-78-6 | 2-Hexanone | 160 | U |
| 127-18-4 | Tetrachloroethene | 160 | U |
| 108-88-3 | Toluene | 160 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 160 | U |
| 108-90-7 | Chlorobenzene | 160 | U |
| 100-41-4 | Ethylbenzene | 160 | U |
| 100-42-5 | Styrene | 160 | U |
| 1330-20-7 | Xylene (total) | 160 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/24/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) **WATER** Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 35 | |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 0.7 | J |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW09-03

MW09

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/24/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_258.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

CLIENT SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V09.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 16.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947502

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F16.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.21 | JN 8 | J |
| | UNKNOWN | 9.27 | 8 | J |
| | UNKNOWN | 9.47 | 10 | J |
| | UNKNOWN | 9.69 | 21 | J |
| 000873-94-9 | CYCLOHEXANONE, 3,3,5-TRIMETHYL- | 9.93 | 140 | JN |
| 000112-36-7 | ETHANE, 1,1'-OXYBIS[2-ETHOXY-] | 10.57 | 17 | JN |
| | UNKNOWN | 11.14 | 31 | J |
| | UNKNOWN | 11.69 | 7 | J |
| | ~~UNKNOWN~~ | ~~13.85~~ | ~~B 9~~ | ~~J~~ |
| | UNKNOWN | 13.90 | JN 7 | J |
| | UNKNOWN | 14.05 | 8 | J |
| | UNKNOWN | 14.10 | 8 | J |
| | UNKNOWN | 15.75 | 7 | J |
| | UNKNOWN | 15.99 | 12 | J |
| | UNKNOWN | 16.22 | 13 | J |
| | UNKNOWN | 19.74 | 9 | J |
| | UNKNOWN | 20.22 | 8 | J |
| | UNKNOWN | 21.17 | 10 | J |
| | UNKNOWN | 25.05 | 11 | J |
| | UNKNOWN | 25.69 | 15 | J |

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW10C-03

MW10C

9/24/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970940118

Level (low/med): LOW__ VALIDATED Date Received: 09/25/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 6990 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 10.1 | | | P |
| 7440-39-3 | Barium___ | 337 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 141000 | | | P |
| 7440-47-3 | Chromium_ | 360 | | | P |
| 7440-48-4 | Cobalt___ | 13.9 | B | | P |
| 7440-50-8 | Copper___ | J 45.5 | | | P |
| 7439-89-6 | Iron_____ | 21300 | | | P |
| 7439-92-1 | Lead_____ | 18.9 | | | P |
| 7439-95-4 | Magnesium | J 65900 | | | P |
| 7439-96-5 | Manganese | 447 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 257 | | | P |
| 7440-09-7 | Potassium | J 7460 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 158000 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 14.8 | B | | P |
| 7440-66-6 | Zinc_____ | J 119 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 9/24/97 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001J06.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 50

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 50 | U |
| 74-83-9 | Bromomethane | 50 | U |
| 75-01-4 | Vinyl Chloride | 50 | U |
| 75-00-3 | Chloroethane | 420 | |
| 75-09-2 | Methylene Chloride | 50 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 50 | U |
| 75-35-4 | 1,1-Dichloroethene | 50 | U |
| 75-34-3 | 1,1-Dichloroethane | 50 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 50 | U |
| 67-66-3 | Chloroform | 50 | U |
| 107-06-2 | 1,2-Dichloroethane | 50 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | U |
| 56-23-5 | Carbon Tetrachloride | 50 | U |
| 75-27-4 | Bromodichloromethane | 50 | U |
| 78-87-5 | 1,2-Dichloropropane | 50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | U |
| 79-01-6 | Trichloroethene | 50 | U |
| 124-48-1 | Dibromochloromethane | 50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | U |
| 71-43-2 | Benzene | 50 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 50 | U |
| 75-25-2 | Bromoform | 50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 50 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 127-18-4 | Tetrachloroethene | 50 | U |
| 108-88-3 | Toluene | 50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | U |
| 108-90-7 | Chlorobenzene | 50 | U |
| 100-41-4 | Ethylbenzene | 50 | U |
| 100-42-5 | Styrene | 50 | U |
| 1330-20-7 | Xylene (total) | 50 | U |

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 20 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 8.1 | J |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW10C

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_246.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001J06.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.17 | 4100 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 8.87 | 170 | JN |

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW10C-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940118

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008611.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 8.08 | 30 | J |
| | Unknown | 8.19 | 22 | J |
| | Unknown | 8.42 | 9 | J |
| | Propanol isomer | 9.37 | 52 | J |
| | Unknown | 9.43 | 47 | J |
| | Unknown | 9.80 | 19 | J |
| | Unknown | 9.85 | 12 | J |
| | Unknown | 10.48 | 14 | J |
| | Unknown | 11.41 | 97 | J |
| | Unknown | 12.02 | 13 | J |
| | Unknown | 12.87 | 11 | J |
| | Unknown | 14.32 | 12 | J |
| | Unknown | 15.19 | 33 | J |
| | Unknown | 15.83 | 10 | J |
| | Unknown | 16.62 | 14 | J |
| | Unknown | 16.91 | 12 | J |
| | Unknown | 20.98 | 9 | J |
| | Unknown | 22.00 | 16 | J |
| | Unknown | 23.61 | 32 | J |
| | Unknown | 25.22 | 9 | J |

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW21-03

MW21

L b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

DATE SAMPLED: 10/01/97

M trix (soil/water): WATER Lab Sample ID: 971004520

L vel (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 54.6 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 182 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 95200 | | | P_ |
| 7440-47-3 | Chromium_ | 7.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | B | | P_ |
| 7440-50-8 | Copper___ | U 4.8 | B | | P_ |
| 7439-89-6 | Iron____ | 2750 | | | P_ |
| 7439-92-1 | Lead____ | 1.4 | B | | P_ |
| 7439-95-4 | Magnesium | 26400 | | | P_ |
| 7439-96-5 | Manganese | 166 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | U 4.2 | B | | P_ |
| 7440-09-7 | Potassium | J 4330 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 38600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 15.8 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VOLATILE CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V12.D

Level: (low/med) LOW Date Received: 10/02/97 (1)

% Moisture: not dec. Date Analyzed: 10/05/97 (3)

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER=1.00

| 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 | 10 | U |
| 67-64-1 | Acetone | 4 12 | |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021813.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 20 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021813.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW21-03

MW21

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 DATE SAMPLED: 10/01/97 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_272.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V12.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | JN 12 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004520

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021813.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 10.70 | JN 6 | JN |
| | UNKNOWN | 11.38 | 9 | J |
| | UNKNOWN | 11.98 | 21 | J |
| | UNKNOWN | 13.46 | 7 | J |
| | SUBSTITUTED ETHANOL ISOMER | 13.53 | 13 | J |
| | UNKNOWN | 14.97 | 3 | J |
| | UNKNOWN | 17.94 | 6 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 18.02 | 2 | JN |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 19.26 | 3 | JN |
| | UNKNOWN | 23.65 | 23 | J |

000101-10-0 PROPANOIC ACID, 2-(3-CHLOROPHENOXY) 19.26 JN 3 JN

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW22-03

MW22

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

M_trix (soil/water): WATER Lab Sample ID: 971002006

I vel (low/med): LOW__ Date Received: 10/01/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 579 | | | P |
| 7440-36-0 | Antimony | U 3.8 | B | | P |
| 7440-38-2 | Arsenic | 2.0 | U | | P |
| 7440-39-3 | Barium | 628 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 254000 | | | P |
| 7440-47-3 | Chromium | 19.7 | | | P |
| 7440-48-4 | Cobalt | 1.3 | B | | P |
| 7440-50-8 | Copper | 125 | | | P |
| 7439-89-6 | Iron | 1340 | | | P |
| 7439-92-1 | Lead | 6.8 | | | P |
| 7439-95-4 | Magnesium | 39100 | | | P |
| 7439-96-5 | Manganese | 48.6 | | | P |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | 17.6 | B | | P |
| 7440-09-7 | Potassium | J 24700 | | E | P |
| 7782-49-2 | Selenium | 2.0 | U | | P |
| 7440-22-4 | Silver | 1.0 | U | | P |
| 7440-23-5 | Sodium | J 338000 | | E | P |
| 7440-28-0 | Thallium | U 2.6 | B | | P |
| 7440-62-2 | Vanadium | 1.0 | U | | P |
| 7440-66-6 | Zinc | U 17.6 | B | | P |
| | Cyanide | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

C lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW22-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97 3

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

VALIDATED CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW22-03

DATE SAMPLED: 9/30/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) **WATER** Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) **LOW** Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 8.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 80 | U |
| 95-57-8 | 2-Chlorophenol | 80 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 80 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 80 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 80 | U |
| 95-48-7 | 2-Methylphenol | 80 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 80 | U |
| 106-44-5 | 4-Methylphenol | 80 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 80 | U |
| 67-72-1 | Hexachloroethane | 80 | U |
| 98-95-3 | Nitrobenzene | 80 | U |
| 78-59-1 | Isophorone | 80 | U |
| 88-75-5 | 2-Nitrophenol | 80 | U |
| 105-67-9 | 2,4-Dimethylphenol | 80 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 80 | U |
| 120-83-2 | 2,4-Dichlorophenol | 80 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 80 | U |
| 91-20-3 | Naphthalene | 80 | U |
| 106-47-8 | 4-Chloroaniline | 80 | U |
| 87-68-3 | Hexachlorobutadiene | 80 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 80 | U |
| 91-57-6 | 2-Methylnaphthalene | 80 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 80 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 80 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 200 | U |
| 91-58-7 | 2-Chloronaphthalene | 80 | U |
| 88-74-4 | 2-Nitroaniline | 200 | U |
| 131-11-3 | Dimethylphthalate | 80 | U |
| 208-96-8 | Acenaphthylene | 80 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 80 | U |
| 99-09-2 | 3-Nitroaniline | 200 | U |
| 83-32-9 | Acenaphthene | 80 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 200 | U |
| 100-02-7 | 4-Nitrophenol | 200 | U |
| 132-64-9 | Dibenzofuran | 80 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 80 | U |
| 84-66-2 | Diethylphthalate | 80 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 80 | U |
| 86-73-7 | Fluorene | 80 | U |
| 100-01-6 | 4-Nitroaniline | 200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 80 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 80 | U |
| 118-74-1 | Hexachlorobenzene | 80 | U |
| 87-86-5 | Pentachlorophenol | 200 | U |
| 85-01-8 | Phenanthrene | 80 | U |
| 120-12-7 | Anthracene | 80 | U |
| 86-74-8 | Carbazole | 80 | U |
| 84-74-2 | Di-N-Butylphthalate | 80 | U |
| 206-44-0 | Fluoranthene | 80 | U |
| 129-00-0 | Pyrene | 80 | U |
| 85-68-7 | Butylbenzylphthalate | 80 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 80 | U |
| 56-55-3 | Benzo(A)Anthracene | 80 | U |
| 218-01-9 | Chrysene | 80 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 80 | U |
| 117-84-0 | Di-N-Octylphthalate | 80 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 80 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 80 | U |
| 50-32-8 | Benzo(A)Pyrene | 80 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 80 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 80 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 80 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW22-03

MW22

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/30/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_275.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V13.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-45-6 | METHANE, CHLORODIFLUORO- | 2.44 | JN 9 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.88 | ↓ 25 | JN |

FORM I VOA-TIC

1F

VALIDATION LEVEL

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW22-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971002006

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017607.D

Level: (low/med) LOW Date Received: 10/01/97

% Moisture: decanted: (Y/N) Date Extracted: 10/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.62 | JN 7 | J |
| | UNKNOWN | 10.95 | ↓ 10 | J |
| | UNKNOWN | 13.46 | ↓ 4 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW23-03
MW23
9-25-97

.a Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

.ab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

(a rix (soil/water): WATER Lab Sample ID: 970942506

.e el (low/med): LOW__ Date Received: 09/26/97

: Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 2440 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 3.5 | B | | P |
| 7440-39-3 | Barium__ | 133 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 84,800 | | | P |
| 7440-47-3 | Chromium_ | 18.6 | | | P |
| 7440-48-4 | Cobalt___ | 4.7 | B | | P |
| 7440-50-8 | Copper___ | 19.6 | B | | P |
| 7439-89-6 | Iron_____ | 11,300 | | | P |
| 7439-92-1 | Lead_____ | u 7.7 | | | P |
| 7439-95-4 | Magnesium | 23,800 | | | P |
| 7439-96-5 | Manganese | 377 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 19.6 | B | | P |
| 7440-09-7 | Potassium | J 3940 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 75,300 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 6.7 | B | | P |
| 7440-66-6 | Zinc_____ | u 32.9 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

C lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 10 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW23

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_142.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942506

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010607.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q | |
|---|---|---|---|---|---|
| | ~~Unknown~~ | ~~8.38~~ | ~~5~~ | ~~J~~ | BR |
| | Propanol isomer | 9.28 | 4 | J | |
| | Propanol isomer | 9.35 | 4 | J | |
| | Unknown | 11.01 | 9 | J | |
| | Unknown | 12.34 | 2 | J | |
| | ~~Unknown~~ | ~~14.00~~ | ~~2~~ | ~~J~~ | BR |
| | Unknown | 16.32 | 10 | J | |
| | Unknown | 16.53 | 6 | J | |
| | Unknown | 16.82 | 7 | J | |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ALS-GWMW24-03
MW24
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942508

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 9660 | | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 7.7 | B | | P_ |
| 7440-39-3 | Barium___ | 330 | | | P_ |
| 7440-41-7 | Beryllium | 1.2 | B | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 161000 | | | P_ |
| 7440-47-3 | Chromium_ | 61.5 | | | P_ |
| 7440-48-4 | Cobalt___ | 8.9 | B | | P_ |
| 7440-50-8 | Copper___ | 57.9 | | | P_ |
| 7439-89-6 | Iron_____ | 36300 | | | P_ |
| 7439-92-1 | Lead_____ | 16.8 | | | P_ |
| 7439-95-4 | Magnesium | 45700 | | | P_ |
| 7439-96-5 | Manganese | 566 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 44.2 | | | P_ |
| 7440-09-7 | Potassium | J 6240 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.6 | B | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 62900 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 19.8 | B | | P_ |
| 7440-66-6 | Zinc_____ | 62.2 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001K08.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 15 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | J | 5 | J |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

FORM I SV-2

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942508

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010609.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.78 | 2 | J |
| | Unknown | 13.54 | 2 | J |

VALIDATED

FORM I SV-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-03

9/23/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926110.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | J | [illegible] | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | UJ | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

ANALYZED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 104 | ~~5~~ JB | |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

M28

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_223.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/24/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/26/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | UJ 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0926110.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: not dec. Date Analyzed: 09/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW28-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970936809

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1007610.D

Level: (low/med) LOW Date Received: 09/24/97

% Moisture: decanted: (Y/N) Date Extracted: 09/25/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

ORIGINAL

Number TICs Found: 5

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.80 | 4 | J |
| | Unknown | 9.85 | 10 | J |
| | Unknown | 11.05 | 10 | J |
| | Unknown | 13.62 | 5 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.96 | 2 | JN |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW29-03

MW29

I b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 9/29/97

I-b Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947504

I vel (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 90.5 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 116 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 93500 | | | P_ |
| 7440-47-3 | Chromium_ | U 1.7 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | U 2.6 | B | | P_ |
| 7439-89-6 | Iron_____ | 5790 | | | P_ |
| 7439-92-1 | Lead_____ | 1.0 | B | | P_ |
| 7439-95-4 | Magnesium | 42500 | | | P_ |
| 7439-96-5 | Manganese | 96.6 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | U 5.0 | B | | P_ |
| 7440-09-7 | Potassium | J 2950 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 73900 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_____ | U 10.9 | B | | P_ |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-03

DATE SAMPLED: 9/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K03.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 43 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 6 | J |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW29-03

MW29

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_260.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VALIDATED SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003K03.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.82 | JN 8 | JN |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED SAMPLE NO.

ACS-GWMW29-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947504

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1016F12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/16/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 17

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.18 | 7 | J |
| | UNKNOWN | 9.25 | 7 | J |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.67 | 15 | JN |
| | UNKNOWN | 11.10 | 23 | J |
| | UNKNOWN | 13.76 | 3 | J |
| | UNKNOWN | 13.81 | 5 | J |
| | ~~UNKNOWN~~ | ~~13.87~~ | ~~2~~ | ~~J~~ |
| | METHYLATED BENZOIC ACID ISOMER | 14.64 | 2 | J |
| | UNKNOWN | 15.63 | 3 | J |
| | UNKNOWN | 16.18 | 3 | J |
| | UNKNOWN | 16.44 | 4 | J |
| | UNKNOWN | 16.69 | 5 | J |
| | UNKNOWN | 20.20 | 3 | J |
| ~~000057-10-3~~ | ~~HEXADECANOIC ACID~~ | ~~21.57~~ | ~~7~~ | ~~JNXB~~ |
| | UNKNOWN | 21.68 | 3 | J |
| 000057-11-4 | OCTADECANOIC ACID | 23.44 | 2 | JN |
| | UNKNOWN | 25.02 | 2 | J |

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW30-03
MW30
10-1-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971004701

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1830 | _ | N | P_ |
| 7440-36-0 | Antimony_ | U 1.1 | B | | P_ |
| 7440-38-2 | Arsenic__ | 4.3 | B | | P_ |
| 7440-39-3 | Barium___ | 210 | _ | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 107,000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 49.8 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 15.1 | B | | P_ |
| 7440-50-8 | Copper___ | 39.7 | _ | | P_ |
| 7439-89-6 | Iron_____ | 8590 | _ | | P_ |
| 7439-92-1 | Lead_____ | 8.0 | _ | | P_ |
| 7439-95-4 | Magnesium | 49200 | _ | | P_ |
| 7439-96-5 | Manganese | 139 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 58.9 | _ | | P_ |
| 7440-09-7 | Potassium | J 3260 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 36,600 | _ | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.8 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 39.5 | _ | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO:

ACS-GWMW30-03

10-1-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 17 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | U5 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | U 10 5 | J |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |



VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW30

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_042.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1003V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/04/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.89 | 7 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004701

Sample wt/vol: 500 (g/mL) ml Lab File ID: 1009603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 500(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.79 | 7 | JN |
| | UNKNOWN | 10.41 | 6 | J |
| | UNKNOWN | 11.10 | 21 | J |
| | UNKNOWN | 13.55 | 2 | J |
| 000098-73-7 | BENZOIC ACID, P-TERT-BUTYL- | 16.59 | 2 | JN |
| | UNKNOWN | 21.76 | 3 | J |

FORM I SV-TIC

VALIDATED

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW31-03

MW31

9/24/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970939917

Level (low/med): LOW__ Date Received: 09/25/97

% Solids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1890 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 7.5 | B | | P |
| 7440-39-3 | Barium___ | 245 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 94900 | | | P |
| 7440-47-3 | Chromium_ | 88.8 | | | P |
| 7440-48-4 | Cobalt___ | 4.3 | B | | P |
| 7440-50-8 | Copper___ | J 43.7 | | | P |
| 7439-89-6 | Iron_____ | 6230 | | | P |
| 7439-92-1 | Lead_____ | 8.2 | | | P |
| 7439-95-4 | Magnesium | J 34100 | | | P |
| 7439-96-5 | Manganese | 174 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 65.8 | | | P |
| 7440-09-7 | Potassium | J 2410 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 19800 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 4.3 | B | | P |
| 7440-66-6 | Zinc_____ | U 37.6 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 7/24/97 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 130 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 20 | U |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 6 | J |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW31

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_245.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929111.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

CLIENT SAMPLE NO.

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW31-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939917

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009614.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CONFIDENTIAL

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 9.80 | 43 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.91 | 63 | JN |
| 000080-05-7 | PHENOL,4,4'-(1-METHYLETHYLI | 23.98 | 63 | JN |

EPA SAMPLE NO.
ACS-GWMW32-03

# INORGANIC ANALYSES DATA SHEET

MW32

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_ 9/24/97

Matrix (soil/water): WATER Lab Sample ID: 970939916

Level (low/med): LOW__ VALIDATED Date Received: 09/25/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 780 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium__ | 169 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 75200 | | | P |
| 7440-47-3 | Chromium_ | 20.8 | | | P |
| 7440-48-4 | Cobalt___ | 1.4 | B | | P |
| 7440-50-8 | Copper___ | J 13.4 | B | | P |
| 7439-89-6 | Iron____ | 4860 | | | P |
| 7439-92-1 | Lead____ | 3.9 | | | P |
| 7439-95-4 | Magnesium | J 47500 | | | P |
| 7439-96-5 | Manganese | 78.0 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 18.9 | B | | P |
| 7440-09-7 | Potassium | J 4630 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 35400 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.3 | B | | P |
| 7440-66-6 | Zinc____ | 4 30.8 | | | P |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AGS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 110 | [illegible] |
| 111-44-4 | Bis(2-Chloroethyl) Ether | | 2 | J |
| 95-57-8 | 2-Chlorophenol | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 95-48-7 | 2-Methylphenol | | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 20 | U |
| 106-44-5 | 4-Methylphenol | | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 20 | U |
| 67-72-1 | Hexachloroethane | | 20 | U |
| 98-95-3 | Nitrobenzene | UJ | 20 | U |
| 78-59-1 | Isophorone | | 20 | U |
| 88-75-5 | 2-Nitrophenol | | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 91-20-3 | Naphthalene | | 20 | U |
| 106-47-8 | 4-Chloroaniline | | 20 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | | 20 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 50 | U |
| 131-11-3 | Dimethylphthalate | | 20 | U |
| 208-96-8 | Acenaphthylene | | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 20 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| 83-32-9 | Acenaphthene | | 20 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-060 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 50 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 50 | U |
| 132-64-9 | Dibenzofuran | | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 20 | U |
| 84-66-2 | Diethylphthalate | | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 20 | U |
| 86-73-7 | Fluorene | | 20 | U |
| 100-01-6 | 4-Nitroaniline | | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 20 | U |
| 118-74-1 | Hexachlorobenzene | | 20 | U |
| 87-86-5 | Pentachlorophenol | | 50 | U |
| 85-01-8 | Phenanthrene | | 20 | U |
| 120-12-7 | Anthracene | | 20 | U |
| 86-74-8 | Carbazole | | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | | 20 | U |
| 206-44-0 | Fluoranthene | | 20 | U |
| 129-00-0 | Pyrene | | 20 | U |
| 85-68-7 | Butylbenzylphthalate | | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | | 20 | U |
| 218-01-9 | Chrysene | | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 20 | J |
| 117-84-0 | Di-N-Octylphthalate | | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 20 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW32

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_244.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

AVALON

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929110.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939916

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009613.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 6.51 | 4 | J |
| | Unknown | 9.80 | 36 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.92 | 5 | JN |
| 000080-05-7 | PHENOL, 4,4'-(1-METHYLETHYLI | 23.99 | 5 | JN |

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW33-03

MW33

L b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SATURIFIED: 11/01/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

M_trix (soil/water): WATER Lab Sample ID: 971004517

I vel (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | U 195 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 20.3 | | | P_ |
| 7440-39-3 | Barium__ | 1280 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 290000 | | | P_ |
| 7440-47-3 | Chromium_ | 9.8 | B | | P_ |
| 7440-48-4 | Cobalt___ | 3.4 | B | | P_ |
| 7440-50-8 | Copper___ | 14.7 | B | | P_ |
| 7439-89-6 | Iron____ | 27800 | | | P_ |
| 7439-92-1 | Lead____ | 1.5 | B | | P_ |
| 7439-95-4 | Magnesium | 65900 | | | P_ |
| 7439-96-5 | Manganese | 128 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 21.9 | B | | P_ |
| 7440-09-7 | Potassium | J 15500 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 178000 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 16.0 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW33-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V09.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 1 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-03

DATE SAMPLED: 10/01/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021810.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: CRQL MULTI/4OL = 2.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 65 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 20 | U |
| 95-57-8 | 2-Chlorophenol | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 20 | U |
| 95-48-7 | 2-Methylphenol | 20 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 20 | U |
| 106-44-5 | 4-Methylphenol | 20 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 20 | U |
| 67-72-1 | Hexachloroethane | 20 | U |
| 98-95-3 | Nitrobenzene | 20 | U |
| 78-59-1 | Isophorone | 1 | J |
| 88-75-5 | 2-Nitrophenol | 20 | U |
| 105-67-9 | 2,4-Dimethylphenol | 20 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 20 | U |
| 120-83-2 | 2,4-Dichlorophenol | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20 | U |
| 91-20-3 | Naphthalene | 20 | U |
| 106-47-8 | 4-Chloroaniline | 20 | U |
| 87-68-3 | Hexachlorobutadiene | 20 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 20 | U |
| 91-57-6 | 2-Methylnaphthalene | 20 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 20 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 20 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 50 | U |
| 91-58-7 | 2-Chloronaphthalene | 20 | U |
| 88-74-4 | 2-Nitroaniline | 50 | U |
| 131-11-3 | Dimethylphthalate | 20 | U |
| 208-96-8 | Acenaphthylene | 20 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 20 | U |
| 99-09-2 | 3-Nitroaniline | 50 | U |
| 83-32-9 | Acenaphthene | 20 | U |

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021810.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 50 | U |
| 100-02-7 | 4-Nitrophenol | 50 | U |
| 132-64-9 | Dibenzofuran | 20 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 20 | U |
| 84-66-2 | Diethylphthalate | 20 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 20 | U |
| 86-73-7 | Fluorene | 20 | U |
| 100-01-6 | 4-Nitroaniline | 50 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 50 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 20 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 20 | U |
| 118-74-1 | Hexachlorobenzene | 20 | U |
| 87-86-5 | Pentachlorophenol | 50 | U |
| 85-01-8 | Phenanthrene | 20 | U |
| 120-12-7 | Anthracene | 20 | U |
| 86-74-8 | Carbazole | 20 | U |
| 84-74-2 | Di-N-Butylphthalate | 20 | U |
| 206-44-0 | Fluoranthene | 20 | U |
| 129-00-0 | Pyrene | 20 | U |
| 85-68-7 | Butylbenzylphthalate | 20 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 20 | U |
| 56-55-3 | Benzo(A)Anthracene | 20 | U |
| 218-01-9 | Chrysene | 20 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 76 | |
| 117-84-0 | Di-N-Octylphthalate | 20 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 20 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 20 | U |
| 50-32-8 | Benzo(A)Pyrene | 20 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 20 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 20 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 20 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW33-03

MW33

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_269.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW33-03

Lab Name: IEA-NC  Method: SOW 1/91

Lab Code: IEA  Case No.: 2240-088  SDG No.: 09475

Matrix: (soil/water) WATER  Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml  Lab File ID: 1005V09.D

Level: (low/med) LOW  Date Received: 10/02/97

% Moisture: not dec.  Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm)  Dilution Factor: 1.0

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

Number TICs Found: 9  CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.50 | JN 6 | J |
| 109875 | DIMETHOXY METHANE | 5.12 | 26 | JN |
| 000075-65-0 | 2-PROPANOL, 2-METHYL- | 6.46 | 13 | JN |
| 646060 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000646-06-0 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.34 | 190 | JN |
| | UNKNOWN HYDROCARBON | 10.76 | 10 | J |
| 000123-91-1 | 1,4-DIOXANE | 12.74 | 35 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | 32 | JN |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.: ACS-GWMW33-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V09.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.50 | JN 6 | J |
| 109875 | DIMETHOXY METHANE | 5.12 | 26 | JN |
| 000075-65-0 | 2-PROPANOL, 2-METHYL- | 6.46 | 13 | JN |
| 646060 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000646-06-0 | 1,3-DIOXOLANE | 8.95 | 17 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.34 | 190 | JN |
| | UNKNOWN HYDROCARBON | 10.76 | 10 | J |
| 000123-91-1 | 1,4-DIOXANE | 12.74 | 35 | JN |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | 32 | JN |

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004517

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1021810.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/21/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 16

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | SUBSTITUTED PROPANOL ISOMER | 10.19 | JN 22 | J |
| | SUBSTITUTED PROPANOL ISOMER | 10.26 | 29 | J |
| | UNKNOWN | 10.72 | 21 | J |
| | UNKNOWN | 12.36 | 130 | J |
| 003302-10-1 | HEXANOIC ACID, 3,5,5-TRIMETHYL- | 12.82 | 6 | JN |
| 000144-19-4 | 1,3-PENTANEDIOL, 2,2,4-TRIMETHYL- | 13.06 | 6 | JN |
| | UNKNOWN | 14.83 | 6 | J |
| | ~~UNKNOWN~~ | ~~15.21~~ | ~~B 5~~ | ~~J~~ |
| | UNKNOWN | 15.78 | JN 5 | J |
| | UNKNOWN | 16.05 | 6 | J |
| | UNKNOWN | 18.00 | 15 | J |
| | UNKNOWN | 18.52 | 6 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 19.34 | 34 | JN |
| | UNKNOWN | 20.22 | 7 | J |
| | UNKNOWN | 23.66 | 13 | J |
| | UNKNOWN | 27.98 | 12 | J |

000101-10-0 (PROPANOIC ACID, 2-(3-CHLOROPHENOXY)) 19.34 JN 34 JN

FORM I SV-TIC

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-LWMW34-03

MW34

DATE SAMPLED 4/21/97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

Matrix (soil/water): WATER Lab Sample ID: 970947501

Level (low/med): LOW__ Date Received: 09/30/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | u 167 | B | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 176 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 84300 | _ | | P_ |
| 7440-47-3 | Chromium_ | 16.6 | | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 13.0 | B | | P_ |
| 7439-89-6 | Iron____ | 3190 | _ | | P_ |
| 7439-92-1 | Lead____ | 2.9 | B | | P_ |
| 7439-95-4 | Magnesium | 51000 | _ | | P_ |
| 7439-96-5 | Manganese | 42.1 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 17.4 | B | | P_ |
| 7440-09-7 | Potassium | J 4480 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 37200 | _ | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | u 21.6 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW34-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 DATE SAMPLED: 9/29/97 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | J 1 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW34-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 9/29/97

Lab Code: IEA Case No.: 2240-038 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017604.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 8.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 340 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 80 | U |
| 95-57-8 | 2-Chlorophenol | 80 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 80 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 80 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 80 | U |
| 95-48-7 | 2-Methylphenol | 80 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 80 | U |
| 106-44-5 | 4-Methylphenol | 80 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 80 | U |
| 67-72-1 | Hexachloroethane | 80 | U |
| 98-95-3 | Nitrobenzene | 80 | U |
| 78-59-1 | Isophorone | 80 | U |
| 88-75-5 | 2-Nitrophenol | 80 | U |
| 105-67-9 | 2,4-Dimethylphenol | 80 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 80 | U |
| 120-83-2 | 2,4-Dichlorophenol | 80 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 80 | U |
| 91-20-3 | Naphthalene | 80 | U |
| 106-47-8 | 4-Chloroaniline | 80 | U |
| 87-68-3 | Hexachlorobutadiene | 80 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 80 | U |
| 91-57-6 | 2-Methylnaphthalene | 80 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 80 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 80 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 200 | U |
| 91-58-7 | 2-Chloronaphthalene | 80 | U |
| 88-74-4 | 2-Nitroaniline | 200 | U |
| 131-11-3 | Dimethylphthalate | 80 | U |
| 208-96-8 | Acenaphthylene | 80 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 80 | U |
| 99-09-2 | 3-Nitroaniline | 200 | U |
| 83-32-9 | Acenaphthene | 80 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VOLATILE SAMPLE NO.

ACS-GWMW34-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017604.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 200 | U |
| 100-02-7 | 4-Nitrophenol | 200 | U |
| 132-64-9 | Dibenzofuran | 80 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 80 | U |
| 84-66-2 | Diethylphthalate | 80 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 80 | U |
| 86-73-7 | Fluorene | 80 | U |
| 100-01-6 | 4-Nitroaniline | 200 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 200 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 80 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 80 | U |
| 118-74-1 | Hexachlorobenzene | 80 | U |
| 87-86-5 | Pentachlorophenol | 200 | U |
| 85-01-8 | Phenanthrene | 80 | U |
| 120-12-7 | Anthracene | 80 | U |
| 86-74-8 | Carbazole | 80 | U |
| 84-74-2 | Di-N-Butylphthalate | 80 | U |
| 206-44-0 | Fluoranthene | 80 | U |
| 129-00-0 | Pyrene | 80 | U |
| 85-68-7 | Butylbenzylphthalate | 80 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 80 | U |
| 56-55-3 | Benzo(A)Anthracene | 80 | U |
| 218-01-9 | Chrysene | 80 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 80 | U |
| 117-84-0 | Di-N-Octylphthalate | 80 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 80 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 80 | U |
| 50-32-8 | Benzo(A)Pyrene | 80 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 80 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 80 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 80 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW34-03

MW34

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_257.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/~~03~~ 30/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/02/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/13/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VOLATILE CLIENT SAMPLE NO.

ACS-GWMW34-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V12.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: not dec. Date Analyzed: 10/02/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.86 | JN 12 | JN |

FORM I VOA-TIC

1F

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW34-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 970947501

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017604.D

Level: (low/med) LOW Date Received: 09/30/97

% Moisture: decanted: (Y/N) Date Extracted: 10/02/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.62 | JN 93 | J |

FORM I SV-TIC

INORGANIC ANALYSES DATA SHEET

ACS-GWMW36-03

MW36

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

9/24/97

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

Matrix (soil/water): WATER Lab Sample ID: 970940120

VALIDATED

Level (low/med): LOW__ Date Received: 09/25/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 4770 | | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.8 | B | | P_ |
| 7440-39-3 | Barium___ | 242 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | J 75400 | | | P_ |
| 7440-47-3 | Chromium_ | 80.9 | | | P_ |
| 7440-48-4 | Cobalt___ | 3.1 | B | | P_ |
| 7440-50-8 | Copper___ | J 37.9 | | | P_ |
| 7439-89-6 | Iron____ | 9550 | | | P_ |
| 7439-92-1 | Lead____ | 8.9 | | | P_ |
| 7439-95-4 | Magnesium | J 46600 | | | P_ |
| 7439-96-5 | Manganese | 122 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 68.0 | | | P_ |
| 7440-09-7 | Potassium | J 4690 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 40600 | | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 3.3 | B | | P_ |
| 7440-66-6 | Zinc____ | 4 45.7 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW36-08

9/24/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930112.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | 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 | UJ | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW36-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 240 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 30 | U |
| 95-57-8 | 2-Chlorophenol | | 30 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 30 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 30 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 30 | U |
| 95-48-7 | 2-Methylphenol | | 30 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 30 | U |
| 106-44-5 | 4-Methylphenol | | 30 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 30 | U |
| 67-72-1 | Hexachloroethane | | 30 | U |
| 98-95-3 | Nitrobenzene | UJ | 30 | U |
| 78-59-1 | Isophorone | | 30 | U |
| 88-75-5 | 2-Nitrophenol | | 30 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 30 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 30 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 30 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 30 | U |
| 91-20-3 | Naphthalene | | 30 | U |
| 106-47-8 | 4-Chloroaniline | | 30 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 30 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 30 | U |
| 91-57-6 | 2-Methylnaphthalene | | 30 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 30 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 30 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 75 | U |
| 91-58-7 | 2-Chloronaphthalene | | 30 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 75 | U |
| 131-11-3 | Dimethylphthalate | | 30 | U |
| 208-96-8 | Acenaphthylene | | 30 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 30 | U |
| 99-09-2 | 3-Nitroaniline | | 75 | U |
| 83-32-9 | Acenaphthene | | 30 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW36-03

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 75 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 75 | U |
| 132-64-9 | Dibenzofuran | | 30 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 30 | U |
| 84-66-2 | Diethylphthalate | | 30 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 30 | U |
| 86-73-7 | Fluorene | | 30 | U |
| 100-01-6 | 4-Nitroaniline | | 75 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 75 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 30 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 30 | U |
| 118-74-1 | Hexachlorobenzene | | 30 | U |
| 87-86-5 | Pentachlorophenol | | 75 | U |
| 85-01-8 | Phenanthrene | | 30 | U |
| 120-12-7 | Anthracene | | 30 | U |
| 86-74-8 | Carbazole | | 30 | U |
| 84-74-2 | Di-N-Butylphthalate | | 30 | U |
| 206-44-0 | Fluoranthene | | 30 | U |
| 129-00-0 | Pyrene | | 30 | U |
| 85-68-7 | Butylbenzylphthalate | | 30 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 30 | U |
| 56-55-3 | Benzo(A)Anthracene | | 30 | U |
| 218-01-9 | Chrysene | | 30 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 6 | [illegible] |
| 117-84-0 | Di-N-Octylphthalate | | 30 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 30 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 30 | U |
| 50-32-8 | Benzo(A)Pyrene | | 30 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 30 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 30 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 30 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW36

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_248.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW36-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930112.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW36-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970940120

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009615.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

Number TICs Found: 4

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.52 | 6 | JN |
| | Unknown | 9.80 | 37 | JN |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.91 | 13 | JN |
| 000080-05-7 | PHENOL, 4,4' (1-METHYLETHYLI | 23.98 | 6 | JN |

FORM I SV-TIC

EPA SAMPLE NO.

# INORGANIC ANALYSES DATA SHEET

ACS-GWMW50-03
MW50
10-1-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971004703

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 12,000 | _ | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 6.8 | B | | P_ |
| 7440-39-3 | Barium___ | 285 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 191,000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 130 | _ | | P_ |
| 7440-48-4 | Cobalt___ | 11.9 | B | | P_ |
| 7440-50-8 | Copper___ | 36.0 | _ | | P_ |
| 7439-89-6 | Iron_____ | 20,200 | _ | | P_ |
| 7439-92-1 | Lead_____ | 13.8 | _ | | P_ |
| 7439-95-4 | Magnesium | 87,400 | _ | | P_ |
| 7439-96-5 | Manganese | 408 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 105 | _ | | P_ |
| 7440-09-7 | Potassium | J 21,000 | _ | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 481,000 | _ | | P_ |
| 7440-28-0 | Thallium_ | u 2.2 | B | | P_ |
| 7440-62-2 | Vanadium_ | 19.0 | B | | P_ |
| 7440-66-6 | Zinc_____ | 56.7 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-03 10-1-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 340 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 60 | U |
| 95-57-8 | 2-Chlorophenol | | 60 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 60 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 60 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 60 | U |
| 95-48-7 | 2-Methylphenol | | 60 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | u5 | 60 | U |
| 106-44-5 | 4-Methylphenol | | 60 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | u5 | 60 | U |
| 67-72-1 | Hexachloroethane | u5 | 60 | U |
| 98-95-3 | Nitrobenzene | | 60 | U |
| 78-59-1 | Isophorone | | 60 | U |
| 88-75-5 | 2-Nitrophenol | | 60 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 60 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 60 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 60 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 60 | U |
| 91-20-3 | Naphthalene | | 60 | U |
| 106-47-8 | 4-Chloroaniline | | 60 | U |
| 87-68-3 | Hexachlorobutadiene | u5 | 60 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 60 | U |
| 91-57-6 | 2-Methylnaphthalene | | 60 | U |
| 77-47-4 | Hexachlorocyclopentadiene | ~~u5~~ AH | 60 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 60 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 150 | U |
| 91-58-7 | 2-Chloronaphthalene | | 60 | U |
| 88-74-4 | 2-Nitroaniline | u5 | 150 | U |
| 131-11-3 | Dimethylphthalate | | 60 | U |
| 208-96-8 | Acenaphthylene | | 60 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 60 | U |
| 99-09-2 | 3-Nitroaniline | | 150 | U |
| 83-32-9 | Acenaphthene | | 60 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 150 | U |
| 100-02-7 | 4-Nitrophenol | UJ 150 | U |
| 132-64-9 | Dibenzofuran | 60 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 60 | U |
| 84-66-2 | Diethylphthalate | 60 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 60 | U |
| 86-73-7 | Fluorene | 60 | U |
| 100-01-6 | 4-Nitroaniline | 150 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 150 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 60 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 60 | U |
| 118-74-1 | Hexachlorobenzene | 60 | U |
| 87-86-5 | Pentachlorophenol | 150 | U |
| 85-01-8 | Phenanthrene | 60 | U |
| 120-12-7 | Anthracene | 60 | U |
| 86-74-8 | Carbazole | 60 | U |
| 84-74-2 | Di-N-Butylphthalate | 60 | U |
| 206-44-0 | Fluoranthene | 60 | U |
| 129-00-0 | Pyrene | 60 | U |
| 85-68-7 | Butylbenzylphthalate | 60 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 60 | U |
| 56-55-3 | Benzo(A)Anthracene | 60 | U |
| 218-01-9 | Chrysene | 60 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 60 | U |
| 117-84-0 | Di-N-Octylphthalate | 60 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 60 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 60 | U |
| 50-32-8 | Benzo(A)Pyrene | 60 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 60 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 60 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 60 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW50

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_046.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW50-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V14.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.40 | 8 | J |
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 23.85 | 19 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004703

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010603.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 6.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000104-76-7 | 1-HEXANOL, 2-ETHYL- | 9.77 | 82 | JN |
| | UNKNOWN | 11.02 | 24 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROP | 17.78 | 12 | JN |

VALIDATED

FORM I SV-TIC

# INORGANIC ANALYSES DATA SHEET

ACS-GWMW51-03
MW51
10-1-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971004704

Level (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1130 | _ | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.8 | B | | P_ |
| 7440-39-3 | Barium___ | 383 | | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 137,000 | | | P_ |
| 7440-47-3 | Chromium_ | 9.5 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.8 | B | | P_ |
| 7440-50-8 | Copper___ | 7.8 | B | | P_ |
| 7439-89-6 | Iron_____ | 8,500 | _ | | P_ |
| 7439-92-1 | Lead_____ | U 3.9 | _ | | P_ |
| 7439-95-4 | Magnesium | 61,200 | _ | | P_ |
| 7439-96-5 | Manganese | 131 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 11.7 | B | | P_ |
| 7440-09-7 | Potassium | J 3880 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 108,000 | | | P_ |
| 7440-28-0 | Thallium_ | U 3.1 | B | | P_ |
| 7440-62-2 | Vanadium_ | 2.4 | B | | P_ |
| 7440-66-6 | Zinc_____ | U 20.0 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V15.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 100 | U |
| 74-83-9 | Bromomethane | 100 | U |
| 75-01-4 | Vinyl Chloride | 100 | U |
| 75-00-3 | Chloroethane | 100 | U |
| 75-09-2 | Methylene Chloride | 100 | U |
| 67-64-1 | Acetone | 100 | U |
| 75-15-0 | Carbon Disulfide | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | 100 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 100 | U |
| 67-66-3 | Chloroform | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | U |
| 78-93-3 | 2-Butanone | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U |
| 56-23-5 | Carbon Tetrachloride | 100 | U |
| 75-27-4 | Bromodichloromethane | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U |
| 79-01-6 | Trichloroethene | 100 | U |
| 124-48-1 | Dibromochloromethane | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U |
| 71-43-2 | Benzene | 100 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 100 | U |
| 75-25-2 | Bromoform | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | U |
| 591-78-6 | 2-Hexanone | 100 | U |
| 127-18-4 | Tetrachloroethene | 100 | U |
| 108-88-3 | Toluene | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U |
| 108-90-7 | Chlorobenzene | 100 | U |
| 100-41-4 | Ethylbenzene | 100 | U |
| 100-42-5 | Styrene | 100 | U |
| 1330-20-7 | Xylene (total) | 100 | U |

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009606.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 66 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | uJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | uJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009606.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | U5 | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | U 10 | 3 | J |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW51

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4101797_047.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/06/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/23/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |



VALIDATED

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW51-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V15.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.54 | 12000 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.34 | 83 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-93

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971004704

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009606.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 15

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 8.83 | 7 | J |
| | SUBSTITUTED PROPANOL ISOMER | 9.35 | 21 | J |
| | SUBSTITUTED PROPANOL ISOMER | 9.42 | 25 | J |
| | UNKNOWN | 9.82 | 42 | J |
| | UNKNOWN | 10.61 | 28 | J |
| | UNKNOWN | 11.40 | 45 | J |
| | UNKNOWN | 12.01 | 12 | J |
| | UNKNOWN | 13.66 | 10 | J |
| | UNKNOWN | 15.19 | 28 | J |
| | UNKNOWN | 15.85 | 22 | J |
| | UNKNOWN | 16.89 | 10 | J |
| | UNKNOWN | 17.83 | 8 | J |
| | SUBSTITUTED PROPANOL ISOMER | 17.92 | 8 | J |
| | UNKNOWN | 18.30 | 8 | J |
| | UNKNOWN | 21.01 | 8 | J |

VALIDATED

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW51-03

MW513

L b Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

DATE SAMPLED: 10/01/97

Lab Code: AEN___ Case No:2240_088___ SAS No.: _____ SDG No.: 09475_

M trix (soil/water): WATER Lab Sample ID: 971004518

L vel (low/med): LOW__ Date Received: 10/02/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 1040 | _ | | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium__ | 397 | _ | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 138000 | _ | | P_ |
| 7440-47-3 | Chromium_ | 7.5 | B | | P_ |
| 7440-48-4 | Cobalt___ | 2.3 | B | | P_ |
| 7440-50-8 | Copper___ | 6.7 | B | | P_ |
| 7439-89-6 | Iron____ | 8660 | _ | | P_ |
| 7439-92-1 | Lead____ | 3.3 | _ | | P_ |
| 7439-95-4 | Magnesium | 61600 | _ | | P_ |
| 7439-96-5 | Manganese | 128 | _ | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 10.8 | B | | P_ |
| 7440-09-7 | Potassium | J 3880 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | J 108000 | _ | E | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.8 | B | | P_ |
| 7440-66-6 | Zinc____ | 11 18.9 | B | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | _ | _____ | __ |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V10.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 10.0

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 100 | U |
| 74-83-9 | Bromomethane | 100 | U |
| 75-01-4 | Vinyl Chloride | 100 | U |
| 75-00-3 | Chloroethane | 100 | U |
| 75-09-2 | Methylene Chloride | 100 | U |
| 67-64-1 | Acetone | 100 | U |
| 75-15-0 | Carbon Disulfide | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | 100 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 100 | U |
| 67-66-3 | Chloroform | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | U |
| 78-93-3 | 2-Butanone | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U |
| 56-23-5 | Carbon Tetrachloride | 100 | U |
| 75-27-4 | Bromodichloromethane | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U |
| 79-01-6 | Trichloroethene | 100 | U |
| 124-48-1 | Dibromochloromethane | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U |
| 71-43-2 | Benzene | 100 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 100 | U |
| 75-25-2 | Bromoform | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | U |
| 591-78-6 | 2-Hexanone | 100 | U |
| 127-18-4 | Tetrachloroethene | 100 | U |
| 108-88-3 | Toluene | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U |
| 108-90-7 | Chlorobenzene | 100 | U |
| 100-41-4 | Ethylbenzene | 100 | U |
| 100-42-5 | Styrene | 100 | U |
| 1330-20-7 | Xylene (total) | 100 | U |

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-03

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017615.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

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

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 18 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 25 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 25 | U |
| 83-32-9 | Acenaphthene | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VALIDATED

CLIENT SAMPLE NO.

ACS-GWMW51-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017615.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW51-03

MW513

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 10/01/97

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_270.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 10/03/97 (2)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/14/97 (11)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET VALIDATED
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW51-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1005V10.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: not dec. Date Analyzed: 10/05/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.53 | JN 12000 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.33 | ↓ 110 | JN |

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-088 SDG No.: 09475

Matrix: (soil/water) WATER Lab Sample ID: 971004518

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1017615.D

Level: (low/med) LOW Date Received: 10/02/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/17/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 18

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN | 9.18 | JN 15 | J |
| | UNKNOWN | 9.25 | 14 | J |
| | METHYLATED BENZENE ISOMER | 9.59 | 11 | J |
| | UNKNOWN | 10.94 | 10 | J |
| | UNKNOWN | 11.29 | 68 | J |
| | UNKNOWN | 11.86 | 9 | J |
| | ~~UNKNOWN~~ | ~~13.20~~ | ~~B 6~~ | ~~J~~ |
| | UNKNOWN | 13.37 | JN 7 | J |
| | UNKNOWN | 13.50 | 11 | J |
| | UNKNOWN | 14.13 | 7 | J |
| | UNKNOWN | 15.05 | 39 | J |
| | UNKNOWN | 15.72 | 25 | J |
| | UNKNOWN | 16.59 | 6 | J |
| | UNKNOWN | 16.79 | 9 | J |
| | UNKNOWN | 17.74 | 9 | J |
| | UNKNOWN | 18.12 | 12 | J |
| | UNKNOWN | 19.62 | 8 | J |
| | UNKNOWN | 20.77 | 7 | J |

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW52-03
MW52
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942610

Level (low/med): LOW__ Date Received: 09/26/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 750 | | | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 41.7 | | | P |
| 7440-39-3 | Barium___ | 321 | | | P |
| 7440-41-7 | Beryllium | 1.1 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 114,000 | | | P |
| 7440-47-3 | Chromium_ | 9.3 | B | | P |
| 7440-48-4 | Cobalt___ | 2.1 | B | | P |
| 7440-50-8 | Copper___ | 10.4 | B | | P |
| 7439-89-6 | Iron____ | 5340 | | | P |
| 7439-92-1 | Lead____ | u 4.1 | | | P |
| 7439-95-4 | Magnesium | 44,100 | | | P |
| 7439-96-5 | Manganese | 207 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 12.2 | B | | P |
| 7440-09-7 | Potassium | I 3640 | B | E | P |
| 7782-49-2 | Selenium_ | 2.1 | B | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 145,000 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.8 | B | | P |
| 7440-66-6 | Zinc____ | u 21.7 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW52-03 9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 100 | U |
| 74-83-9 | Bromomethane | 100 | U |
| 75-01-4 | Vinyl Chloride | 100 | U |
| 75-00-3 | Chloroethane | 100 | U |
| 75-09-2 | Methylene Chloride | 100 | U |
| 67-64-1 | Acetone | 100 | U |
| 75-15-0 | Carbon Disulfide | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | 100 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 100 | U |
| 67-66-3 | Chloroform | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | U |
| 78-93-3 | 2-Butanone | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U |
| 56-23-5 | Carbon Tetrachloride | 100 | U |
| 75-27-4 | Bromodichloromethane | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U |
| 79-01-6 | Trichloroethene | 100 | U |
| 124-48-1 | Dibromochloromethane | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U |
| 71-43-2 | Benzene | 100 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 100 | U |
| 75-25-2 | Bromoform | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | U |
| 591-78-6 | 2-Hexanone | 100 | U |
| 127-18-4 | Tetrachloroethene | 100 | U |
| 108-88-3 | Toluene | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U |
| 108-90-7 | Chlorobenzene | 100 | U |
| 100-41-4 | Ethylbenzene | 100 | U |
| 100-42-5 | Styrene | 100 | U |
| 1330-20-7 | Xylene (total) | 100 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW52-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010611.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | U | 33 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW52-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010611.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ 25 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 25 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 10 | U |
| 117-84-0 | Di-N-Octylphthalate | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 10 | U |

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW52

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 500 (g/mL) ML Lab File ID: P4092597_131.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 5000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW52-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1002V06.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/03/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 2

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000060-29-7 | ETHER | 4.56 | 9900 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.37 | 72 | JN |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW52-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942610

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010611.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.82 | 11 | J |
| | Unknown | 7.97 | 13 | J |
| | Unknown | 8.10 | 30 | J |
| | Unknown | 8.20 | 27 | J |
| | Unknown | 8.25 | 16 | J |
| | Unknown | 8.41 | 10 | J |
| | 2-Propanol isomer | 9.34 | 18 | J |
| | Unknown | 9.41 | 20 | J |
| | Unknown | 9.59 | 20 | J |
| | Unknown | 9.74 | 22 | J |
| | Unknown | 9.81 | 20 | J |
| | Unknown | 10.60 | 7 | J |
| | Unknown | 10.79 | 8 | J |
| | Unknown | 11.10 | 20 | J |
| | Unknown | 11.37 | 100 | J |
| | Unknown | 12.62 | 8 | J |
| | Unknown | 13.47 | 12 | J |
| | Unknown | 15.15 | 10 | J |
| | Unknown | 15.79 | 16 | J |
| | Unknown | 21.96 | 10 | J |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW53-03
MW53
9-25-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_082___ SAS No.: _____ SDG No.: 09403_

Matrix (soil/water): WATER Lab Sample ID: 970942509

Level (low/med): LOW__ Date Received: 09/26/97

Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | 7,490 | | | P |
| 7440-36-0 | Antimony_ | 1.6 | B | | P |
| 7440-38-2 | Arsenic__ | 10.1 | | | P |
| 7440-39-3 | Barium___ | 1520 | | | P |
| 7440-41-7 | Beryllium | 1.8 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 230,000 | | | P |
| 7440-47-3 | Chromium_ | 58.3 | | | P |
| 7440-48-4 | Cobalt___ | 6.6 | B | | P |
| 7440-50-8 | Copper___ | 40.1 | | | P |
| 7439-89-6 | Iron_____ | 27,400 | | | P |
| 7439-92-1 | Lead_____ | 17.0 | | | P |
| 7439-95-4 | Magnesium | 102,000 | | | P |
| 7439-96-5 | Manganese | 417 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 62.1 | | | P |
| 7440-09-7 | Potassium | J 29000 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 380,000 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 4.1 | B | | P |
| 7440-66-6 | Zinc_____ | 79.1 | | | P |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-03
9-25-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V03.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | u | 4 | J |
| 67-64-1 | Acetone | u | 12 | |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | u J | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 2 | J |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | J | 5 | J |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 1 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010610.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | ~~U~~ JAM J | 50 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | UJ | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | UJ | 10 | U |
| 67-72-1 | Hexachloroethane | UJ | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 5 | J |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

FORM I SV-1

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010610.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | UJ | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | U | 12 | |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

FORM I SV-2

VALIDATED

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW53

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_147.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/08/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW53-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 5 (g/mL) ml Lab File ID: 1001V03.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: not dec. Date Analyzed: 10/01/97

GC Column: DB-624 ID: .530(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 7

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN HYDROCARBON | 2.58 | 13 | J |
| 000075-65-0 | 2-PROPANOL, 2-METHYL- | 6.51 | 29 | JN |
| 646060 | 1,3-DIOXOLANE | 9.00 | 11 | JN |
| 000109-99-9 | FURAN, TETRAHYDRO- | 9.40 | 19 | JN |
| 001072-47-5 | 1,3-DIOXOLANE, 4-METHYL- | 10.80 | 12 | JN |
| 000123-91-1 | 1,4-DIOXANE | 12.79 | 61 | JN |
| | UNKNOWN HYDROCARBON | 23.87 | 14 | J |

FORM I VOA-TIC

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-082 SDG No.: 09403

Matrix: (soil/water) WATER Lab Sample ID: 970942509

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1010610.D

Level: (low/med) LOW Date Received: 09/26/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.84 | 14 | J |
| | Unknown | 8.05 | 22 | J |
| | Unknown | 8.33 | 100 | J |
| | 2-Propanol isomer | 9.36 | 29 | J |
| | Unknown | 9.43 | 26 | J |
| | Unknown | 9.60 | 23 | J |
| | Unknown | 9.82 | 40 | J |
| | Unknown | 10.36 | 16 | J |
| | Unknown | 10.99 | 34 | J |
| | Unknown | 11.35 | 150 | J |
| | Unknown | 11.57 | 130 | J |
| | Unknown | 11.78 | 360 | J |
| | Unknown | 12.06 | 13 | J |
| | Unknown | 12.22 | 26 | J |
| | Unknown | 12.62 | 35 | J |
| | Unknown | 13.33 | 24 | J |
| | Unknown | 14.04 | 27 | J |
| 000085-44-9 | PHTHALIC ANHYDRIDE | 14.47 | 14 | JN |
| | Unknown | 14.54 | 26 | J |
| 000101-10-0 | PROPANOIC ACID, 2-(3-CHLOROPHENOXY) | 18.00 | 32 | JN |

VALIDATED

FORM I SV-TIC

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW54-03

MW54

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

9/24/97

Matrix (soil/water): WATER Lab Sample ID: 970939912

Level (low/med): LOW__ Date Received: 09/25/97

% Solids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 1980 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 4.7 | B | | P |
| 7440-39-3 | Barium___ | 153 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 126000 | | | P |
| 7440-47-3 | Chromium_ | 46.2 | | | P |
| 7440-48-4 | Cobalt___ | 3.2 | B | | P |
| 7440-50-8 | Copper___ | J 39.3 | | | P |
| 7439-89-6 | Iron_____ | 5480 | | | P |
| 7439-92-1 | Lead_____ | 5.5 | | | P |
| 7439-95-4 | Magnesium | J 52000 | | | P |
| 7439-96-5 | Manganese | 256 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 37.4 | B | | P |
| 7440-09-7 | Potassium | J 2750 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 28700 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 3.4 | B | | P |
| 7440-66-6 | Zinc_____ | 4 53.6 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW54-03

9/24/97

I b Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

N trix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930105.D

I vel: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

C Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

S il Extract Volume: (uL) Soil Aliquot Volume: (uL)

| 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 | UJ | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | UJ | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| -55-6 | 1,1,1-Trichloroethane | UJ | 10 | U |
| 56-23-5 | Carbon Tetrachloride | UJ | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | UJ | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW54-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009610.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 160 | |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 30 | U |
| 95-57-8 | 2-Chlorophenol | | 30 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 30 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 30 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 30 | U |
| 95-48-7 | 2-Methylphenol | | 30 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 30 | U |
| 106-44-5 | 4-Methylphenol | | 30 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 30 | U |
| 67-72-1 | Hexachloroethane | | 30 | U |
| 98-95-3 | Nitrobenzene | UJ | 30 | U |
| 78-59-1 | Isophorone | | 30 | U |
| 88-75-5 | 2-Nitrophenol | | 30 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 30 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 30 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 30 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 30 | U |
| 91-20-3 | Naphthalene | | 30 | U |
| 106-47-8 | 4-Chloroaniline | | 30 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 30 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 30 | U |
| 91-57-6 | 2-Methylnaphthalene | | 30 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 30 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 30 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 75 | U |
| 91-58-7 | 2-Chloronaphthalene | | 30 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 75 | U |
| 131-11-3 | Dimethylphthalate | | 30 | U |
| 208-96-8 | Acenaphthylene | | 30 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 30 | U |
| 99-09-2 | 3-Nitroaniline | | 75 | U |
| 83-32-9 | Acenaphthene | | 30 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW54-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009610.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 75 | U |
| 100-02-7 | 4-Nitrophenol | UJ 75 | U |
| 132-64-9 | Dibenzofuran | 30 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 30 | U |
| 84-66-2 | Diethylphthalate | 30 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 30 | U |
| 86-73-7 | Fluorene | 30 | U |
| 100-01-6 | 4-Nitroaniline | 75 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 75 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 30 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 30 | U |
| 118-74-1 | Hexachlorobenzene | 30 | U |
| 87-86-5 | Pentachlorophenol | 75 | U |
| 85-01-8 | Phenanthrene | 30 | U |
| 120-12-7 | Anthracene | 30 | U |
| 86-74-8 | Carbazole | 30 | U |
| 84-74-2 | Di-N-Butylphthalate | 30 | U |
| 206-44-0 | Fluoranthene | 30 | U |
| 129-00-0 | Pyrene | 30 | U |
| 85-68-7 | Butylbenzylphthalate | 30 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 30 | U |
| 56-55-3 | Benzo(A)Anthracene | 30 | U |
| 218-01-9 | Chrysene | 30 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 30 | U |
| 117-84-0 | Di-N-Octylphthalate | 30 | U |
| 205-99-2 | Benzo(B)Fluoranthene | 30 | U |
| 207-08-9 | Benzo(K)Fluoranthene | 30 | U |
| 50-32-8 | Benzo(A)Pyrene | 30 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 30 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 30 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 30 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW54

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_240.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW54-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0930105.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/30/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONFIDENTIAL

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW54-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1009610.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/09/97

Injection Volume: 2 (uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 14

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 7.98 | 91 | J |
| | Unknown | 8.28 | 6 | J |
| | Unknown | 9.71 | 9 | J |
| | Unknown | 9.81 | 16 | J |
| | Unknown | 10.02 | 17 | J |
| | Unknown | 10.15 | 7 | J |
| | Unknown | 10.45 | 7 | J |
| | Unknown | 10.60 | 13 | J |
| | Unknown | 11.16 | 38 | J |
| | Unknown | 13.61 | 8 | J |
| 000087-41-2 | 1(3H)-ISOBENZOFURANONE | 14.92 | 12 | JN |
| | Unknown | 15.28 | 6 | J |
| | Substituted Benzene Isomer | 17.02 | 38 | J |
| 000080-05-7 | PHENOL, 4,4'-(1-METHYLETHYLI | 23.99 | 9 | JN |

FORM I SV-TIC

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
ACS-GWMW55-03

MW55

ab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_080___ SAS No.: _____ SDG No.: 09367_

9/24/97

a rix (soil/water): WATER Lab Sample ID: 970939913

evel (low/med): LOW__ Date Received: 09/25/97

olids: __0.0

VALIDATED

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 6100 | | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 5.9 | B | | P |
| 7440-39-3 | Barium__ | 219 | | | P |
| 7440-41-7 | Beryllium | 1.1 | B | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | J 78200 | | | P |
| 7440-47-3 | Chromium_ | 60.5 | | | P |
| 7440-48-4 | Cobalt___ | 4.4 | B | | P |
| 7440-50-8 | Copper___ | J 54.1 | | | P |
| 7439-89-6 | Iron____ | 5850 | | | P |
| 7439-92-1 | Lead____ | 16.9 | | | P |
| 7439-95-4 | Magnesium | J 47700 | | | P |
| 7439-96-5 | Manganese | 388 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 60.8 | | | P |
| 7440-09-7 | Potassium | J 6660 | | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | J 49500 | | E | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 5.3 | B | | P |
| 7440-66-6 | Zinc____ | U 77.1 | | | P |
| | Cyanide__ | 10.0 | U | | CA |

c or Before: BROWN____ Clarity Before: CLOUDY Texture: _____

olor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

c ments:

FORM I - IN

3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 10/24/97 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929107.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

VALIDATED

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | UJ | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | UJ | 10 | U |
| 75-09-2 | Methylene Chloride | | 10 | U |
| 67-64-1 | Acetone | | 10 | U |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 10 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 79-01-6 | Trichloroethene | | 10 | U |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 10 | U |
| 71-43-2 | Benzene | | 10 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 10 | U |
| 108-88-3 | Toluene | | 1 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 100-42-5 | Styrene | | 10 | U |
| 1330-20-7 | Xylene (total) | | 10 | U |

FORM I VOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008606.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/06/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VALIDATED

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

| CAS NO. | COMPOUND | | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 7 | J |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 10 | U |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 95-48-7 | 2-Methylphenol | | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 106-44-5 | 4-Methylphenol | | 10 | U |
| 621-64-7 | N-Nitrosodi-N-Propylamine | | 10 | U |
| 67-72-1 | Hexachloroethane | | 10 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 78-59-1 | Isophorone | | 10 | U |
| 88-75-5 | 2-Nitrophenol | | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | U |
| 111-91-1 | Bis(2-Chloroethoxy) Methane | | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 10 | U |
| 91-20-3 | Naphthalene | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 10 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | UJ | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 25 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | U |
| 88-74-4 | 2-Nitroaniline | UJ | 25 | U |
| 131-11-3 | Dimethylphthalate | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 10 | U |
| 99-09-2 | 3-Nitroaniline | | 25 | U |
| 83-32-9 | Acenaphthene | | 10 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008606.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | | 25 | U |
| 100-02-7 | 4-Nitrophenol | 45 | 25 | U |
| 132-64-9 | Dibenzofuran | | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 10 | U |
| 84-66-2 | Diethylphthalate | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | | 10 | U |
| 86-73-7 | Fluorene | | 10 | U |
| 100-01-6 | 4-Nitroaniline | | 25 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | | 25 | U |
| 86-30-6 | N-Nitrosodiphenylamine | | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | | 10 | U |
| 118-74-1 | Hexachlorobenzene | | 10 | U |
| 87-86-5 | Pentachlorophenol | | 25 | U |
| 85-01-8 | Phenanthrene | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 86-74-8 | Carbazole | | 10 | U |
| 84-74-2 | Di-N-Butylphthalate | | 10 | U |
| 206-44-0 | Fluoranthene | | 10 | U |
| 129-00-0 | Pyrene | | 10 | U |
| 85-68-7 | Butylbenzylphthalate | | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | | 10 | U |
| 56-55-3 | Benzo(A)Anthracene | | 10 | U |
| 218-01-9 | Chrysene | | 10 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | | 32 | |
| 117-84-0 | Di-N-Octylphthalate | | 10 | U |
| 205-99-2 | Benzo(B)Fluoranthene | | 10 | U |
| 207-08-9 | Benzo(K)Fluoranthene | | 10 | U |
| 50-32-8 | Benzo(A)Pyrene | | 10 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | | 10 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | | 10 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | | 10 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW55

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4092597_241.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/29/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 10/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.050 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 5.0 | U |
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 2.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW55-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0929107.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: not dec. Date Analyzed: 09/29/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-03

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-080 SDG No.: 09367

Matrix: (soil/water) WATER Lab Sample ID: 970939913

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1008606.D

Level: (low/med) LOW Date Received: 09/25/97

% Moisture: decanted: (Y/N) Date Extracted: 09/29/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/08/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 12

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | Unknown | 8.35 | 2 | JB |
| | Unknown | 9.77 | 3 | J |
| | Unknown | 9.81 | 11 | J |
| | Unknown | 11.01 | 8 | J |
| | Unknown | 13.10 | 4 | J |
| | Unknown | 13.24 | 6 | J |
| | Unknown | 13.32 | 3 | J |
| | Unknown | 13.38 | 2 | J |
| | Unknown | 13.66 | 11 | J |
| | Unknown | 13.72 | 3 | J |
| | Unknown | 13.76 | 3 | J |
| | Unknown | 14.05 | 8 | J |

FORM I SV-TIC

F

# APPENDIX F

# RESIDENTIAL WELL LABORATORY DATA

*One copy of Appendix F has been provided to U.S. EPA, IDEM, and B&VWS. Additional copies of the appendix are available upon request to Montgomery Watson.*

EPA SAMPLE NO.

# INORGANIC ANALYSES DATA SHEET

ACS-PWD0-02
PWD02
10-2-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971007307

Level (low/med): LOW__ Date Received: 10/03/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | UJ 11.7 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 150 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 95,300 | | | P_ |
| 7440-47-3 | Chromium_ | 1.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 71.2 | | | P_ |
| 7439-89-6 | Iron_____ | 2750 | | | P_ |
| 7439-92-1 | Lead_____ | 10.2 | | | P_ |
| 7439-95-4 | Magnesium | 49600 | | | P_ |
| 7439-96-5 | Manganese | 46.2 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 4.3 | B | | P_ |
| 7440-09-7 | Potassium | J 2950 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 24,100 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_____ | 1140 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWD-02 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008507.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWD-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008507.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWD-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015606.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | U |
| 95-57-8 | 2-Chlorophenol | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 95-48-7 | 2-Methylphenol | | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | | 5 | U |
| 106-44-5 | 4-Methylphenol | | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | | 5 | U |
| 67-72-1 | Hexachloroethane | | 5 | U |
| 98-95-3 | Nitrobenzene | | 5 | U |
| 78-59-1 | Isophorone | | 5 | U |
| 88-75-5 | 2-Nitrophenol | | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 91-20-3 | Naphthalene | | 5 | U |
| 106-47-8 | 4-Chloroaniline | | 5 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | | 5 | U |
| 88-74-4 | 2-Nitroaniline | | 20 | U |
| 131-11-3 | Dimethylphthalate | | 5 | U |
| 208-96-8 | Acenaphthylene | | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 5 | U |
| 99-09-2 | 3-Nitroaniline | | 20 | U |
| 83-32-9 | Acenaphthene | | 5 | U |



VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWD-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015606.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWD02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007307 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |



VALIDATED

1E

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-PWD-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008507.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWD-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007307

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015606.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

EPA SAMPLE NO.

# INORGANIC ANALYSES DATA SHEET

ACS-PWK-02
PWK02
10-2-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971007306

Level (low/med): LOW__ Date Received: 10/03/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | J 103 | B | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 48.5 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 89,500 | | | P_ |
| 7440-47-3 | Chromium_ | 1.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 102 | | | P_ |
| 7439-89-6 | Iron____ | 150 | | | P_ |
| 7439-92-1 | Lead____ | 11.3 | | | P_ |
| 7439-95-4 | Magnesium | 30,500 | | | P_ |
| 7439-96-5 | Manganese | 854 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 2.7 | B | | P_ |
| 7440-09-7 | Potassium | J 5310 | | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 108,000 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | 64.8 | | | P_ |
| | Cyanide__ | 10.0 | U | | CA |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWK-02 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008508.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

| CAS NO. | COMPOUND | | | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWK-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008508.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 0.2 | J |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWK-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015605.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | U |
| 95-57-8 | 2-Chlorophenol | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 95-48-7 | 2-Methylphenol | | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | | 5 | U |
| 106-44-5 | 4-Methylphenol | | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | | 5 | U |
| 67-72-1 | Hexachloroethane | | 5 | U |
| 98-95-3 | Nitrobenzene | | 5 | U |
| 78-59-1 | Isophorone | | 5 | U |
| 88-75-5 | 2-Nitrophenol | | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 91-20-3 | Naphthalene | | 5 | U |
| 106-47-8 | 4-Chloroaniline | | 5 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | | 5 | U |
| 88-74-4 | 2-Nitroaniline | | 20 | U |
| 131-11-3 | Dimethylphthalate | | 5 | U |
| 208-96-8 | Acenaphthylene | | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 5 | U |
| 99-09-2 | 3-Nitroaniline | | 20 | U |
| 83-32-9 | Acenaphthene | | 5 | U |



VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWK-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015605.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |



VALIDATED

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWK02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007306 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |



VALIDATED

1E

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-PWK-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008508.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWK-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007306

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015605.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

EPA SAMPLE NO.

# INORGANIC ANALYSES DATA SHEET

ACS-PWRC-02
PWRC02
10-2-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971007308

Level (low/med): LOW__ Date Received: 10/03/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | uJ 10.0 | U | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 178 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 96,800 | | | P |
| 7440-47-3 | Chromium_ | 1.0 | U | | P |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P |
| 7440-50-8 | Copper___ | 3.0 | B | | P |
| 7439-89-6 | Iron_____ | 2270 | | | P |
| 7439-92-1 | Lead_____ | 1.0 | U | | P |
| 7439-95-4 | Magnesium | 53,900 | | | P |
| 7439-96-5 | Manganese | 17.3 | | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 1.2 | B | | P |
| 7440-09-7 | Potassium | J 3450 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 29,100 | | | P |
| 7440-28-0 | Thallium_ | u 2.6 | B | | P |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P |
| 7440-66-6 | Zinc_____ | u 17.3 | B | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| _____ | _____ | _____ | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1LCA

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRC-02 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008506.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 0.2 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWRC-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008506.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRC-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015607.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | U |
| 95-57-8 | 2-Chlorophenol | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 95-48-7 | 2-Methylphenol | | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | | 5 | U |
| 106-44-5 | 4-Methylphenol | | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | | 5 | U |
| 67-72-1 | Hexachloroethane | | 5 | U |
| 98-95-3 | Nitrobenzene | | 5 | U |
| 78-59-1 | Isophorone | | 5 | U |
| 88-75-5 | 2-Nitrophenol | | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 91-20-3 | Naphthalene | | 5 | U |
| 106-47-8 | 4-Chloroaniline | | 5 | U |
| 87-68-3 | Hexachlorobutadiene | uJ | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | | 5 | U |
| 88-74-4 | 2-Nitroaniline | | 20 | U |
| 131-11-3 | Dimethylphthalate | | 5 | U |
| 208-96-8 | Acenaphthylene | | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 5 | U |
| 99-09-2 | 3-Nitroaniline | | 20 | U |
| 83-32-9 | Acenaphthene | | 5 | U |

FORM I SV-1

VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRC-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015607.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | u 5 4 | J |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |

FORM I SV-2

VALIDATED

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWRC02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007308 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |



VALIDATED

1E

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-PWRC-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008506.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRC-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007308

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015607.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

VALIDATED

FORM I SV-TIC

1LCA

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRE-02 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008505.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 0.2 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWRE-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008505.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRE-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015608.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 5 | U |
| 95-57-8 | 2-Chlorophenol | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 95-48-7 | 2-Methylphenol | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5 | U |
| 106-44-5 | 4-Methylphenol | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5 | U |
| 67-72-1 | Hexachloroethane | 5 | U |
| 98-95-3 | Nitrobenzene | 5 | U |
| 78-59-1 | Isophorone | 5 | U |
| 88-75-5 | 2-Nitrophenol | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | U |
| 91-20-3 | Naphthalene | 5 | U |
| 106-47-8 | 4-Chloroaniline | 5 | U |
| 87-68-3 | Hexachlorobutadiene | UJ 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | 5 | U |
| 88-74-4 | 2-Nitroaniline | 20 | U |
| 131-11-3 | Dimethylphthalate | 5 | U |
| 208-96-8 | Acenaphthylene | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | U |
| 99-09-2 | 3-Nitroaniline | 20 | U |
| 83-32-9 | Acenaphthene | 5 | U |



VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRE-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015608.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |

FORM I SV-2

VALIDATED

1E

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-PWRE-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008505.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWRE-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007309

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015608.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-PWY-02
PWY02
10-2-97

a' Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

ab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

a rix (soil/water): WATER Lab Sample ID: 971007611

evel (low/med): LOW__ Date Received: 10/03/97

olids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | UJ 10.0 | U | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 131 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 80,600 | | | P_ |
| 7440-47-3 | Chromium_ | 1.0 | U | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 2.7 | B | | P_ |
| 7439-89-6 | Iron____ | 2560 | | | P_ |
| 7439-92-1 | Lead____ | 1.0 | U | | P_ |
| 7439-95-4 | Magnesium | 42,700 | | | P_ |
| 7439-96-5 | Manganese | 29.3 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 5.5 | B | | P_ |
| 7440-09-7 | Potassium | J 2,730 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.2 | B | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 22,300 | | | P_ |
| 7440-28-0 | Thallium_ | U 2.6 | B | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc____ | U 23.4 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |

:olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

:olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

:ments:

FORM I - IN

3/90

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWY-02 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007611

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015610.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | JAH ~~R~~ | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | U |
| 95-57-8 | 2-Chlorophenol | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 95-48-7 | 2-Methylphenol | | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | | 5 | U |
| 106-44-5 | 4-Methylphenol | | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | | 5 | U |
| 67-72-1 | Hexachloroethane | | 5 | U |
| 98-95-3 | Nitrobenzene | | 5 | U |
| 78-59-1 | Isophorone | | 5 | U |
| 88-75-5 | 2-Nitrophenol | | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 91-20-3 | Naphthalene | | 5 | U |
| 106-47-8 | 4-Chloroaniline | | 5 | U |
| 87-68-3 | Hexachlorobutadiene | UJ | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | | 5 | U |
| 88-74-4 | 2-Nitroaniline | | 20 | U |
| 131-11-3 | Dimethylphthalate | | 5 | U |
| 208-96-8 | Acenaphthylene | | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 5 | U |
| 99-09-2 | 3-Nitroaniline | | 20 | U |
| 83-32-9 | Acenaphthene | | 5 | U |

Note: VOC analysis for PWY-02 was not performed

FORM I SV-1

VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWY-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007611

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015610.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |



VALIDATED

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWY02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007611 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |



VALIDATED

1F

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWY-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007611

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015610.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-PWY-92
PWY92
10-2-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971007310

Level (low/med): LOW__ Date Received: 10/03/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | UJ 10.0 | U | N | P_ |
| 7440-36-0 | Antimony_ | 1.0 | U | | P_ |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P_ |
| 7440-39-3 | Barium___ | 132 | B | | P_ |
| 7440-41-7 | Beryllium | 1.0 | U | | P_ |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P_ |
| 7440-70-2 | Calcium__ | 82900 | | | P_ |
| 7440-47-3 | Chromium_ | U 3.8 | B | | P_ |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P_ |
| 7440-50-8 | Copper___ | 1.3 | B | | P_ |
| 7439-89-6 | Iron_____ | 2540 | | | P_ |
| 7439-92-1 | Lead_____ | 1.0 | U | | P_ |
| 7439-95-4 | Magnesium | 43500 | | | P_ |
| 7439-96-5 | Manganese | 28.2 | | | P_ |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 1.3 | B | | P_ |
| 7440-09-7 | Potassium | J 2800 | B | E | P_ |
| 7782-49-2 | Selenium_ | 2.0 | U | | P_ |
| 7440-22-4 | Silver___ | 1.0 | U | | P_ |
| 7440-23-5 | Sodium___ | 24300 | | | P_ |
| 7440-28-0 | Thallium_ | 2.0 | U | | P_ |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P_ |
| 7440-66-6 | Zinc_____ | U 26.6 | | | P_ |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWY-92 10-2-97

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008504.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWY-92

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008504.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWY-92

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015609.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 108-95-2 | Phenol | | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | | 5 | U |
| 95-57-8 | 2-Chlorophenol | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 95-48-7 | 2-Methylphenol | | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | | 5 | U |
| 106-44-5 | 4-Methylphenol | | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | | 5 | U |
| 67-72-1 | Hexachloroethane | | 5 | U |
| 98-95-3 | Nitrobenzene | | 5 | U |
| 78-59-1 | Isophorone | | 5 | U |
| 88-75-5 | 2-Nitrophenol | | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 91-20-3 | Naphthalene | | 5 | U |
| 106-47-8 | 4-Chloroaniline | | 5 | U |
| 87-68-3 | Hexachlorobutadiene | uJ | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | | 5 | U |
| 88-74-4 | 2-Nitroaniline | | 20 | U |
| 131-11-3 | Dimethylphthalate | | 5 | U |
| 208-96-8 | Acenaphthylene | | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 5 | U |
| 99-09-2 | 3-Nitroaniline | | 20 | U |
| 83-32-9 | Acenaphthene | | 5 | U |

FORM I SV-1

VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWY-92

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015609.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |



VALIDATED

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWY92

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007310 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/14/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |

FORM I LCP

VALIDATED

6/91

1E

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-PWY-92

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008504.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWY-92

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007310

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015609.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

1

# INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AS-PWZ-02
PWZ02
10-2-97

Lab Name: AMERICAN_ENVIRONMENTAL_NE Contract: _____

Lab Code: AEN___ Case No:2240_094___ SAS No.: _____ SDG No.: 10047_

Matrix (soil/water): WATER Lab Sample ID: 971007612

Level (low/med): LOW__ Date Received: 10/03/97

% Solids: __0.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum_ | UJ 10.0 | U | N | P |
| 7440-36-0 | Antimony_ | 1.0 | U | | P |
| 7440-38-2 | Arsenic__ | 2.0 | U | | P |
| 7440-39-3 | Barium___ | 13.2 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium__ | 1.0 | U | | P |
| 7440-70-2 | Calcium__ | 45,100 | | | P |
| 7440-47-3 | Chromium_ | 1.0 | U | | P |
| 7440-48-4 | Cobalt___ | 1.0 | U | | P |
| 7440-50-8 | Copper___ | 14.2 | B | | P |
| 7439-89-6 | Iron_____ | U 39.8 | B | | P |
| 7439-92-1 | Lead_____ | U 2.0 | B | | P |
| 7439-95-4 | Magnesium | 16,000 | | | P |
| 7439-96-5 | Manganese | 1.0 | U | | P |
| 7439-97-6 | Mercury__ | 0.20 | U | | CV |
| 7440-02-0 | Nickel___ | 1.1 | B | | P |
| 7440-09-7 | Potassium | J 3840 | B | E | P |
| 7782-49-2 | Selenium_ | 2.0 | U | | P |
| 7440-22-4 | Silver___ | 1.0 | U | | P |
| 7440-23-5 | Sodium___ | 9430 | | | P |
| 7440-28-0 | Thallium_ | 2.0 | U | | P |
| 7440-62-2 | Vanadium_ | 1.0 | U | | P |
| 7440-66-6 | Zinc_____ | 158 | | | P |
| _____ | Cyanide__ | 10.0 | U | | CA |
| | | | | | |

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

FORM I - IN

3/90

VALIDATED

1LCA

CLIENT SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008509.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | ug/l | Q |
|---|---|---|---|---|
| 67-64-1 | Acetone | R | 5 | U |
| 71-43-2 | Benzene | | 1 | U |
| 74-97-5 | Bromochloromethane | | 1 | U |
| 75-27-4 | Bromodichloromethane | | 1 | U |
| 75-25-2 | Bromoform | | 1 | U |
| 74-83-9 | Bromomethane | | 1 | U |
| 78-93-3 | 2-Butanone | R | 5 | U |
| 75-15-0 | Carbon Disulfide | | 1 | U |
| 56-23-5 | Carbon Tetrachloride | | 1 | U |
| 108-90-7 | Chlorobenzene | | 1 | U |
| 75-00-3 | Chloroethane | | 1 | U |
| 67-66-3 | Chloroform | | 1 | U |
| 74-87-3 | Chloromethane | R | 1 | U |
| 124-48-1 | Dibromochloromethane | | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1 | U |
| 156-59-2 | Cis-1,2-Dichloroethene | | 1 | U |
| 156-60-5 | Trans-1,2-Dichloroethene | | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1 | U |
| 10061-01-5 | Cis-1,3-Dichloropropene | | 1 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 1 | U |
| 100-41-4 | Ethylbenzene | | 1 | U |
| 591-78-6 | 2-Hexanone | | 5 | U |
| 75-09-2 | Methylene Chloride | | 2 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 5 | U |
| 100-42-5 | Styrene | | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | U |
| 127-18-4 | Tetrachloroethene | | 1 | U |

FORM I VOA

VALIDATED

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008509.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-88-3 | Toluene | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 1330-20-7 | Xylene (Total) | 5 | U |

FORM I VOA

VALIDATED

1B

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015611.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 5 | U |
| 111-44-4 | Bis(2-Chloroethyl)Ether | 5 | U |
| 95-57-8 | 2-Chlorophenol | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 95-48-7 | 2-Methylphenol | 5 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5 | U |
| 106-44-5 | 4-Methylphenol | 5 | U |
| 621-64-7 | N-Nitroso-Di-N-Propylamine | 5 | U |
| 67-72-1 | Hexachloroethane | 5 | U |
| 98-95-3 | Nitrobenzene | 5 | U |
| 78-59-1 | Isophorone | 5 | U |
| 88-75-5 | 2-Nitrophenol | 5 | U |
| 105-67-9 | 2,4-Dimethylphenol | 5 | U |
| 111-91-1 | Bis(2-Chloroethoxy)Methane | 5 | U |
| 120-83-2 | 2,4-Dichlorophenol | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | U |
| 91-20-3 | Naphthalene | 5 | U |
| 106-47-8 | 4-Chloroaniline | 5 | U |
| 87-68-3 | Hexachlorobutadiene | 5 | U |
| 59-50-7 | 4-Chloro-3-Methylphenol | 5 | U |
| 91-57-6 | 2-Methylnaphthalene | 5 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 5 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 5 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 20 | U |
| 91-58-7 | 2-Chloronaphthalene | 5 | U |
| 88-74-4 | 2-Nitroaniline | 20 | U |
| 131-11-3 | Dimethylphthalate | 5 | U |
| 208-96-8 | Acenaphthylene | 5 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 5 | U |
| 99-09-2 | 3-Nitroaniline | 20 | U |
| 83-32-9 | Acenaphthene | 5 | U |



VALIDATED

1C

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015611.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 20 | U |
| 100-02-7 | 4-Nitrophenol | 20 | U |
| 132-64-9 | Dibenzofuran | 5 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 5 | U |
| 84-66-2 | Diethylphthalate | 5 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5 | U |
| 86-73-7 | Fluorene | 5 | U |
| 100-01-6 | 4-Nitroaniline | 20 | U |
| 534-52-1 | 4,6-Dinitro-2-Methylphenol | 20 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 5 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 5 | U |
| 118-74-1 | Hexachlorobenzene | 5 | U |
| 87-86-5 | Pentachlorophenol | 20 | U |
| 85-01-8 | Phenanthrene | 5 | U |
| 120-12-7 | Anthracene | 5 | U |
| 86-74-8 | Carbazole | 5 | U |
| 84-74-2 | Di-N-Butylphthalate | 5 | U |
| 206-44-0 | Fluoranthene | 5 | U |
| 129-00-0 | Pyrene | 5 | U |
| 85-68-7 | Butylbenzylphthalate | 5 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 5 | U |
| 56-55-3 | Benzo(a)Anthracene | 5 | U |
| 218-01-9 | Chrysene | 5 | U |
| 117-81-7 | Bis(2-Ethylhexyl)Phthalate | 5 | U |
| 117-84-0 | Di-N-Octylphthalate | 5 | U |
| 205-99-2 | Benzo(b)Fluoranthene | 5 | U |
| 207-08-9 | Benzo(k)Fluoranthene | 5 | U |
| 50-32-8 | Benzo(a)Pyrene | 5 | U |
| 193-39-5 | Indeno(1,2,3-Cd)Pyrene | 5 | U |
| 53-70-3 | Dibenz(A,H)Anthracene | 5 | U |
| 191-24-2 | Benzo(G,H,I)Perylene | 5 | U |



VALIDATED

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PWZ02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Lab Sample ID: 971007612 Date Received: 10/03/97

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 10/07/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 10/15/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L) | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.010 | U |
| 319-85-7 | beta-BHC | 0.010 | U |
| 319-86-8 | delta-BHC | 0.010 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.010 | U |
| 76-44-8 | Heptachlor | 0.010 | U |
| 309-00-2 | Aldrin | 0.010 | U |
| 1024-57-3 | Heptachlor epoxide | 0.010 | U |
| 959-98-8 | Endosulfan I | 0.010 | U |
| 60-57-1 | Dieldrin | 0.020 | U |
| 72-55-9 | 4,4'-DDE | 0.020 | U |
| 72-20-8 | Endrin | 0.020 | U |
| 33213-65-9 | Endosulfan II | 0.020 | U |
| 72-54-8 | 4,4'-DDD | 0.020 | U |
| 1031-07-8 | Endosulfan sulfate | 0.020 | U |
| 50-29-3 | 4,4'-DDT | 0.020 | U |
| 72-43-5 | Methoxychlor | 0.10 | U |
| 53494-70-5 | Endrin ketone | 0.020 | U |
| 7421-93-4 | Endrin aldehyde | 0.020 | U |
| 5103-71-9 | alpha-Chlordane | 0.010 | U |
| 5103-74-2 | gamma-Chlordane | 0.010 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.20 | U |
| 11104-28-2 | Aroclor-1221 | 0.40 | U |
| 11141-16-5 | Aroclor-1232 | 0.20 | U |
| 53469-21-9 | Aroclor-1242 | 0.20 | U |
| 12672-29-6 | Aroclor-1248 | 0.20 | U |
| 11097-69-1 | Aroclor-1254 | 0.20 | U |
| 11096-82-5 | Aroclor-1260 | 0.20 | U |

VALIDATED

1E

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 25 (g/mL) ml Lab File ID: 1008509.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: not dec. Date Analyzed: 10/08/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I VOA-TIC

VALIDATED

1F

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-PWZ-02

Lab Name: IEA-NC Method: SOW 691

Lab Code: IEA Case No.: 2240-094 SDG No.: 10047

Matrix: (soil/water) WATER Lab Sample ID: 971007612

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 1015611.D

Level: (low/med) LOW Date Received: 10/03/97

% Moisture: decanted: (Y/N) Date Extracted: 10/06/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/15/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

FORM I SV-TIC

VALIDATED

G

# APPENDIX G

# DATA VALIDATION SUMMARIES

# VALIDATION NARRATIVE

| | | | |
|---|---|---|---|
| **Project:** ACS | | **Analysis:** | VOCs, SVOCs, PCBs |
| **Number:** 12520421.221602 | | **Matrix:** | Groundwater |
| | | **SDG:** | 9367 |
| Validated By: Steve Wiskes | Date: 11/16/97 | | |

---

This narrative covers the validation of 21 samples from ACS for CLP organic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94) and the Region 5 SOP for validation of organics. The data is validated as acceptable for use in site evaluation with the following comments:

**Hold Times** All hold times were met.

**Instrument Performance** All VOC instrument BFB tuning criteria was acceptable. All SVOC instrument DFTPP tuning criteria was acceptable. All pesticide/PCB resolution check mixture, PEM DDT and endrin breakdown, florisil cartridge check and GPC calibration check QC criteria was acceptable.

**Calibration** Several VOCs in continuing calibration (vinyl chloride, methylene chloride, chloroethane, carbon disulfide, 1,1,1-TCA, carbon tetrachloride, bromoform, and 2-hexanone) exceeded %D criteria. If detected the compounds are qualified (J), estimated. If not detected the compounds are qualified (UJ), estimated quantitation limit. Several SVOCs in continuing calibration exceeded continuing calibration criteria (N-nitroso-di-n-dipropylamine, nitrobenzene, hexachlorobutadiene, 4-chloro-3-methylphenol, 2-nitroanailine, 4-nitrophenol). If detected the compounds are qualified (J) estimated. If not detected the compounds are qualified (UJ) estimated quantitation limit. All pesticide calibration criteria were acceptable.

**Blanks** VOC method blanks and one trip blank were analyzed. The VOC method blanks contained one TIC. The trip blank did not contain any compounds.

One SVOC method blank contained bis(2-ehtylhexyl)phthalate. Sample results were qualified using the 5x/10x rule as undetected at the sample result or the CRQL, whichever was greater.

Pesticide/PCB method blanks and field blanks were analyzed. No compounds were detected in the SVOC method blank.

**Surrogates** Two of 84 VOC surrogate recoveries were outside QC limits. BFB in the MS and MSD were low. The unspiked sample surrogate recovery was acceptable. No action.

All SVOC surrogate recoveries were within QC limits.

One pesticide/PCB surrogate recovery was outside advisory QC limits. Matrix interference, no action.

**Matrix Spikes** VOC matrix spike recoveries and RPDs were within acceptable QC limits.

Four SVOC matrix spike recoveries were slightly high, only phenol detected in unspiked sample, thus phenol is qualified (J) estimated in sample MW28.

Gamma-bhc had a slightly low recovery for the matrix spike. Gamma-bhc is not detetcted, thus qualified (UJ) not detected estimated quantitation limit.

**Field Duplicates** VOC field duplicate results were within acceptable QC limits. Phenol in the SVOC field duplicate results was outside acceptable QC limits. The sample was not qualified based on field duplicate results. Pesticide/PCB field duplicate results were within acceptable QC limits.

**Internal Standards** All VOC internal standard results were within acceptable validation limits. All SVOC internal standard results were within acceptable validation limits.

**Compound Identification** VOC target compound qualitative identification criteria, including RRTs and mass spectra criteria was acceptable. SVOC target compound qualitative identification criteria, including RRTs and mass spectra confirmation criteria was acceptable. Pesticide/PCB target compound qualitative identification criteria, including RRTs, scaling, baseline resolution, and dual column confirmation criteria was acceptable.

**System Performance** VOC system performance, including RIC baseline, resolution, and peak shape was acceptable. SVOC system performance, including RIC baseline, resolution, and peak shape was acceptable. Pesticide florisil and GPC cleanup check results were within acceptable QC limits.

**Sample Results** Overall data quality by the laboratory was good, with no significant instrument related problems observed.

SGW/sgw/
M:\jobs\1252\042\analytical\Sep-97\DV-9367-ORG.doc

# VALIDATION NARRATIVE

**Project:** ACS
**Number:** 1252042

**Analysis:** VOCs, SVOCs, PCBs
**Matrix:** GW/PW Rd 4
SDG 10047

Validated By: JAH Date: 11-16-97

---

This narrative covers the validation of groundwater and private well water samples from ACS for CLP inorganic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

**Hold Times** All hold times were met.

**Instrument Performance** All VOC instrument BFB tuning criteria was acceptable. All SVOC instrument DFTPP tuning criteria was acceptable. All pesticide/PCB resolution check mixture, PEM DDT and endrin breakdown, florisil cartridge check and GPC calibration check QC criteria was acceptable.

**Calibration** All VOC calibration criteria was acceptable, with the following exceptions. Chloromethane, acetone, and 2-butanone RF values were < 0.05 for the PW sample calibration. All sample results for these undetected compounds are unusable "R".

All SVOC calibration criteria was acceptable, with the following exceptions. Percent difference criteria was exceeded for bis(2-choroisopropyl)ether, n-nitrosodi-n-propylamine, hexachloroethane, hexachlorocyclopentadiene, 2-nitroanaline, 4-nitrophenol, and hexachlorobutadiene. Associated samples have been qualified as estimated.

All pesticide calibration criteria were acceptable.

**Blanks** VOC method blanks and one trip blank were analyzed. The VOC method blanks contained a TIC. The trip blank contained acetone. Sample results were qualified using the 5x/10x rule as undetected at the sample result or the CRQL, whichever was greater. Note that the trip blank was designated for the private wells (PWTB01-03), but was analyzed as a groundwater at the higher detection limit.

SVOC method blanks were analyzed. No field blank was associated with this SDG. Bis(2-ethylhexyl)phthalate was detected at low concentration (1.7 and 0.88 ug/L) and was not reported on the Form I's. Sample results were qualified using the 5x/10x rule as undetected at the sample result or the CRQL, whichever was greater.

Pesticide/PCB method blanks and field blanks were analyzed. No pesticides or PCBs were detected in the blanks.

**Surrogates** All VOC surrogate recoveries were within QC limits.
All SVOC surrogate recoveries were within acceptable QC limits.
All pesticide/PCB surrogate recoveries were within acceptable QC limits.

**Matrix Spikes** All matrix spike recoveries and RPDs were within acceptable QC limits, although the pesticide spike indicated some matrix interferences.

**Field Duplicates** VOC field duplicate results were within acceptable QC limits. SVOC field duplicate results were within acceptable QC limits. Pesticide/PCB field duplicate results were within acceptable QC limits.

**Internal Standards** All VOC internal standard results were within acceptable validation limits. All SVOC internal standard results were within acceptable validation limits.

**Compound Identification** VOC target compound qualitative identification criteria, including RRTs and mass spectra criteria was acceptable. SVOC target compound qualitative identification criteria, including RRTs and mass spectra confirmation criteria was acceptable. Pesticide/PCB target compound qualitative identification criteria, including RRTs, scaling, baseline resolution, and dual column confirmation criteria was acceptable.

**System Performance** VOC system performance, including RIC baseline, resolution, and peak shape was acceptable. SVOC system performance, including RIC baseline, resolution, and peak shape was acceptable. Pesticide florisil and GPC cleanup check results were within acceptable QC limits.

**Sample Results** Overall data quality by the laboratory was good, with no significant instrument related problems observed. Sample ACS-PWY-03 was reportedly analyzed as a multi-conc. sample instead of a low concentration sample (i.e., routine CRQL method used). No results for this sample were reported, however, this sample was correctly analyzed as a field duplicate (VOCs were not detected)

JAH/jah
\\MAD1_SERVER1\Main jobs\1252\042\analytical\Sep-97\DV-10047ORG.doc

# DATA VALIDATION NARRATIVE

**Project: ACS**

**Number:** 1252042.221602
Validated By: Mark Pauli

**Analyses:** VOCs, SVOCs, PEST/PCBs, Metals, and Cyanide
SDG#: 09475
Date: 11/21/97

This narrative covers the validation of 20 groundwater samples from ACS for CLP organic analyses by AEN, Inc (IEA) using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review (2/94).* The data is validated as acceptable for use in site evaluation with the following comments:

**Hold Times:** All hold times were met.

**Instrument Performance:** All VOC instrument BFB tuning criteria was acceptable. All SVOC instrument DFTPP tuning criteria was acceptable. All pesticide/PCB resolution check mixture, PEM DDT and Endrin breakdown, and florisil cartridge check, QC criteria was acceptable.

**Calibration:** All VOC calibration criteria was acceptable. All SVOC calibration criteria was acceptable. All Pesticide/PCB calibration criteria was acceptable.

**Blanks:** VOC method blanks, two field blanks, and two trip blanks were analyzed. VOC blanks contained acetone. Sample ACS-GWMW21-03 with acetone detection qualified as non-detect. Method blanks with TIC Butylated Hydroxytoluene reported in the library search. No VOC sample data was affected by method blank TIC detections.

SVOC method blanks and two field blanks were analyzed. No target compounds were detected in method or field blanks. Seven of eighteen samples with TIC detections qualified as non-detects due to the detection of these TICs in method and field blanks associated with these samples.

Pesticide/PCB method and two field blanks were analyzed. No qualifiers were applied to sample data for blank analyses.

**System Monitoring Compound (SMC) Recoveries:** All VOC SMC recoveries were within Q.C. Limits.

SVOC sample data indicated three of eighteen samples with one of eight SMCs outside of Q.C. Limits. All recoveries were greater than 10%. No qualifiers applied to sample data for SMC recoveries.

Pesticide/PCB sample data indicated twelve of eighteen samples with surrogate recoveries outside the advisory limits of 60 - 150%. All recoveries were greater than 10%. No qualifiers applied to sample data for surrogate recoveries.

**Matrix Spike/Matrix Spike Duplicate Recoveries:** VOC data with all MS/MSD recoveries and RPDs within Q.C. Limits.

SVOC data indicated all MS/MSD recoveries within Q.C. Limits. The RPD(%) for phenol was outside the Q.C. Limits due to a low recovery for this compound in the matrix spike. The recovery for phenol in the matrix spike was within the Q.C. Limits for phenol. No qualifiers were applied to sample data for MS/MSD recoveries.

Pesticide/PCB data indicated the matrix spike with gamma-Lindane recovery outside the Q.C. Limits. Matrix spike duplicate with acceptable recovery for gamma-Lindane. The RPD for gamma-Lindane was outside Q.C. Limits for the MS/MSD. All recoveries were greater than 10%. No qualifiers were applied to sample data for MS/MSD data.

**Field Duplicates:** No field duplicates were included in this SDG.

**Internal Standards:** All VOC internal standard results were within acceptable validation limits.

All SVOC internal standard results were within acceptable validation limits.

**Compound Identification:** VOC target compound qualitative identification criteria, including RRTs and mass spectra confirmation criteria, was acceptable.

SVOC target compound qualitative identification criteria, including RRTs and mass spectra confirmation criteria, was acceptable.

Pesticide/PCB target compound qualitative identification criteria, including RRTs, scaling, baseline resolution, and dual column confirmation criteria, was acceptable.

**System Performance:** VOC system performance, including RIC baseline, resolution, and peak shape, was acceptable.

SVOC system performance, including RIC baseline, resolution, and peak shape, was acceptable.

Pesticide/PCB florisil cleanup check results were within Q.C. Limits.

# VALIDATION NARRATIVE

| | | | |
|---|---|---|---|
| Project: | ACS | Analysis: | VOCs, SVOCs, PCBs |
| Number: | 1252042 | Matrix: | Groundwater |
| | | SDG: | 9403 |

Validated By: JAH Date: 11-23-97

---

This narrative covers the validation of 20 groundwater samples from ACS for CLP organic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

**Hold Times** All hold times were met.

**Instrument Performance** All VOC instrument BFB tuning criteria was acceptable. All SVOC instrument DFTPP tuning criteria was acceptable. All pesticide/PCB resolution check mixture, PEM DDT and endrin breakdown, florisil cartridge check and GPC calibration check QC criteria was acceptable.

**Calibration** All VOC calibration criteria was acceptable, except some 2-butanone, 4-methyl-2-pentanone and 2-hexanone %D criteria was exceeded; associated samples have been estimated. All SVOC calibration criteria was acceptable, except some bis(2-chloroisopropyl)ether, n-nitrosodimethylamine, hexachloroethane, nitrobenzene, hexachlorobutadiene, 4-chloro-3-methylphenol, 2-nitroaniline, 4-nitrophenol, and hexachlorobenzene %D criteria was exceeded; associated samples have been estimated. All pesticide calibration criteria were acceptable.

**Blanks** VOC method blanks and three trip blanks and two field blanks were analyzed. The VOC blanks contained methylene chloride and acetone. Sample results were qualified using the 5x/10x rule as undetected at the sample result or the CRQL, whichever was greater.

SVOC method blanks and field blanks were analyzed. Phenol and BEHP and some TICs were detected. Sample results were qualified using the 5x/10x rule as undetected at the sample result or the CRQL, whichever was greater.

Pesticide/PCB method blanks and field blanks were analyzed. No compounds were detected.

**Surrogates** All VOC surrogate recoveries were within QC limits.
All SVOC surrogate recoveries were within QC limits, although some terphenyl results were low.
For pesticide/PCB surrogate recoveries, 34 surrogates were below advisory QC limits (35-59% recovery). This was attributed to matrix interferences. These samples have not historically contained pesticides, and no qualifier were applied.

**Matrix Spikes** All matrix spike recoveries and RPDs were within acceptable QC limits, except for the Pesticide MS analysis, where all recoveries were low. The laboratory did not provide any explanation for the problem.

**Field Duplicates** VOC field duplicate results were within acceptable QC limits. SVOC field duplicate results were within acceptable QC limits. Pesticide/PCB field duplicate results were within acceptable QC limits.

**Internal Standards** All VOC internal standard results were within acceptable validation limits. All SVOC internal standard results were within acceptable validation limits.

**Compound Identification** VOC target compound qualitative identification criteria, including RRTs and mass spectra criteria was acceptable. SVOC target compound qualitative identification criteria, including RRTs and mass spectra confirmation criteria was acceptable. Pesticide PCB target compound qualitative identification criteria, including RRTs, scaling, baseline resolution, and dual column confirmation criteria was acceptable.

**System Performance** VOC system performance, including RIC baseline, resolution, and peak shape was acceptable. SVOC system performance, including RIC baseline, resolution, and peak shape was acceptable. Pesticide florisil and GPC cleanup check results were within acceptable QC limits.

**Sample Results** Overall data quality by the laboratory was good, with no significant instrument related problems observed. Pesticide/PCBs contained matrix interferences, however the data was deemed to be acceptable, and was not qualified.

JAH:jah
\\MAD1_SERVER1\Main\jobs\0-temp\qapp\DV-9403ORG.doc

# VALIDATION NARRATIVE

**Project:** ACS
**Number:** 1252042

**Analysis:** INORGANICS
**Matrix:** GW/PW Rd 4
SDG 10047

Validated By: JAH Date: 11-2-97

---

This narrative covers the validation of groundwater and private well water samples from ACS for CLP inorganic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments/qualifiers:

**Hold Times** All hold times (6 months for metals, 28 days for mercury, and 14 days for cyanide) were met.

**Calibration** All ICP calibration criteria (calibration/ICV/CCV) was acceptable. All cyanide calibration criteria (calibration/ICV/CCV) was acceptable. All mercury CV calibration criteria (calibration/ICV/CCV) were acceptable.

**Blanks** Initial, continuing, and prep blanks were analyzed. No field blanks were included with this SDG. For blanks with analytes greater than the IDL but less than 5x the CRDL, associated sample results less than 5x the blank level were reported as undetected (U), for sample results greater than 5x the blank level were qualified as estimated (J).

**Interference Check Sample** All Solution AB recoveries were within ± 20% of the true value.

**Laboratory Control Sample** All LCS recoveries were within 80-120% recovery.

**Lab and Field Duplicates** Lab duplicate results were within acceptable QC limits (± 20% RPD). Field duplicate results were acceptable.

**Matrix Spikes** All matrix spike recoveries and RPDs were within acceptable QC limits (75-125% recovery), except for aluminum, where the recovery was 125.3%; results have been estimated.

**Furnace Atomic Absorption QC** No graphite furnace runs were performed.

**ICP Serial Dilution** All ICP serial dilution results were within acceptable QC limits (± 10% Difference if original results greater than 50x IDL).

**Sample Result Verification** Calculations and transcriptions were review and were acceptable. Overall data quality by the laboratory was good, with no significant instrument related problems observed.

**Additional Case Specific Problems** No additional problems were observed with this case.

JAH/jah
M:\jobs\0-temp\qapp\DV-10047INORG.doc

# VALIDATION NARRATIVE

**Project:** ACS
**Number:** 1252042.221602

**Analysis:** INORGANICS
**Matrix:** Groundwater
**SDG:** 9367

Validated By: Steve Wiskes  Date: 11/17/97

---

This narrative covers the validation of 18 samples from ACS for CLP inorganic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Analysis Review* (2/94) and USEPA Region 5 validation guidelines. The data is validated as acceptable for use in site evaluation with the following comments/qualifiers:

**Hold Times** All hold times (6 months for metals, 28 days for mercury, and 14 days for cyanide) were met.

**Calibration** All ICP calibration criteria (calibration/ICV/CCV) was acceptable. All AA calibration criteria (calibration/ICV/CCV) was acceptable. All CV calibration criteria (calibration/ICV/CCV) were acceptable.

**Blanks** Initial, continuing, and prep blanks were analyzed, together with one field blank. For blanks with analytes greater than the IDL but less than 5x the CRDL, associated sample results less than 5x the blank level were reported as undetected (U), for sample results greater than 5x the blank level were qualified as estimated (J).

**Interference Check Sample** All Solution AB recoveries were within ± 20% of the true value.

**Laboratory Control Sample** All LCS recoveries were within 80-120% recovery.

**Lab and Field Duplicates** Lab duplicate results were within acceptable QC limits (± 20% RPD). Field duplicate results were acceptable.

**Matrix Spikes** All matrix spike recoveries and RPDs were within acceptable QC limits (75-125% recovery) except aluminum which was high. Aluminum results are qualified (J).

**Furnace Atomic Absorption QC** No graphite furnace runs were performed.

**ICP Serial Dilution** All ICP serial dilution results were within acceptable QC limits (± 10% Difference if original results greater than 50x IDL) except sodium and potassium. Sodium and potassium results are qualified (J).

**Sample Result Verification** Calculations and transcriptions were review and were acceptable. Overall data quality by the laboratory was good, with no significant instrument related problems observed.

**Additional Case Specific Problems** No additional problems were observed with this case.

SGW/sgw/
M:\jobs\1252 042\analytical\Sep-97\DV-9367INORG.doc

# DATA VALIDATION NARRATIVE

ACS
1252042.221602
By: MDP

**Metals in Groundwater**
SDG#: 09475
Date: 11/21/97

This narrative covers data validation of 18 groundwater samples collected from the ACS Site and analyzed for TAL metals using CLP methodology by AEN, Inc. (IEA) Laboratories. The validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (2/94).* This data is acceptable for use in site evaluation with the following comments:

**Hold Times:** All hold times were met.

**Calibration:** All instrument calibration criteria was validated as acceptable.

**Blanks:** Method, preparation, and field blanks were analyzed. Aluminum, antimony, barium, calcium, chromium, copper, iron, magnesium, manganese, nickel, potassium, sodium, thallium, and zinc were detected in the blanks. Results less than 5 times the maximum blank concentration have been qualified as undetected (U) at the reported concentration. Sample specific validation includes:

Sample ACS-GWFB04-03 with magnesium, potassium, sodium, and zinc results qualified as non-detects.

Sample ACS-GWFB05-03 with potassium, sodium, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW09-03 with copper, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW12-03 with antimony, sodium, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW13-03 with aluminum, copper, nickel, and zinc results qualified as non-detects.

Sample ACS-GWMW14-03 with antimony and sodium results qualified as non-detects.

Sample ACS-GWMW18-03 with aluminum, iron, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW19-03 with thallium and zinc results qualified as non-detects.

Sample ACS-GWMW21-03 with aluminum, copper, nickel, and zinc results qualified as non-detects.

Sample ACS-GWMW22-03 with antimony, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW29-03 with aluminum, chromium, copper, nickel, and zinc results qualified as non-detects.

Sample ACS-GWMW33-03 with aluminum and zinc results qualified as non-detects.

Sample ACS-GWMW34-03 with aluminum and zinc results qualified as non-detects.

Sample ACS-GWMW41-03 with sodium, thallium, and zinc results qualified as non-detects.

Sample ACS-GWMW44-03 with chromium, nickel, and zinc results qualified as non-detects.

Sample ACS-GWMW45-03 with aluminum, chromium, and zinc results qualified as non-detects.

Sample ACS-GWMW48-03 with zinc result qualified as non-detect.

Sample ACS-GWMW51-03 with zinc result qualified as non-detect.

**Matrix Spikes:** Matrix spike was run ACS-GWMW12-03. All spike recoveries were within Q.C. Limits. No qualifiers applied to sample data for matrix spikes.

**Duplicates:** No duplicates included in this SDG. Laboratory duplicate on ACS-GWMW12-03. All RPDs(%) were within Q.C. Limits.

**LCS:** All laboratory control spikes were within Q.C. Limits. No qualifiers were applied to sample data for LCS data.

**ICP QC:** ICP interference Q.C. check sample acceptable. Serial dilution run on sample ACS-GWMW12-03 with results for arsenic, chromium, cobalt, copper, and potassium outside the Q.C. Limits. Sample data for these compounds were qualified as estimated (J).

**Sample Results:** All results are acceptable for use in site evaluation. Overall data quality by the laboratory was acceptable, with no significant instrument problems observed. ICP serial dilution Q.C. exceedances were minor.

# VALIDATION NARRATIVE

| | | | |
|---|---|---|---|
| **Project:** | ACS | **Analysis:** | INORGANICS |
| **Number:** | 1252042 | **Matrix:** | Groundwater |
| | | SDG: | 9403 |

Validated By: JAH Date: 11/22/97

---

This narrative covers the validation of 20 Groundwater samples from ACS for CLP inorganic analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Analysis Review* (2 94). The data is validated as acceptable for use in site evaluation with the following comments/qualifiers:

**Hold Times** All hold times (6 months for metals, 28 days for mercury, and 14 days for cyanide) were met.

**Calibration** All ICP calibration criteria (calibration/ICV/CCV) was acceptable. All AA calibration criteria (calibration/ICV/CCV) was acceptable. All CV calibration criteria (calibration/ICV/CCV) were acceptable.

**Blanks** Initial, continuing, and prep blanks were analyzed, together with 2 field blanks. Aluminum, barium, calcium, copper, iron, lead, magnesium, manganese, potassium, sodium, thallium and zinc were detected in these blanks. For blanks with analytes greater than the IDL but less than 5x the CRDL, associated sample results less than 5x the blank level were reported as undetected (U), for sample results greater than 5x the blank level were qualified as estimated (J).

**Interference Check Sample** All Solution AB recoveries were within ± 20% of the true value.

**Laboratory Control Sample** All LCS recoveries were within 80-120% recovery.

**Lab and Field Duplicates** Lab duplicate results were within acceptable QC limits (± 20% RPD). Field duplicate results were acceptable.

**Matrix Spikes** All matrix spike recoveries and RPDs were within acceptable QC limits (75-125% recovery).

**Furnace Atomic Absorption QC** No graphite furnace runs were performed.

**ICP Serial Dilution** All ICP serial dilution results were within acceptable QC limits (± 10% Difference if original results greater than 50x IDL), except potassium (30.6% with LQ=E) which was qualified as estimated (J).

**Sample Result Verification** Calculations and transcriptions were review and were acceptable. Overall data quality by the laboratory was good, with no significant instrument related problems observed.

**Additional Case Specific Problems** No additional problems were observed with this case.

JAH/jah
M:\jobs 0-temp qapp DV-9403INORG doc

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWFB01-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | BN | 22.8 | Parameter detected in associated blank |
| | Calcium | 152 | J | B | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 3.2 | Parameter detected in associated blank |
| | Magnesium | 0 | U | B | 34 | Parameter detected in associated blank |
| | Potassium | 0 | UJ | BE | 30.5 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | BE | 1760 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Zinc | 0 | U | | 45.8 | Parameter detected in associated blank. |
| ACS-GWFB02-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Potassium | 0 | J | UE | 16 | ICP Criteria exceeded. |
| ACS-GWFB03-03 | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Potassium | 34.7 | J | BE | 16 | ICP Criteria exceeded. |
| ACS-GWFB04-03 | Aluminum | 0 | U | B | 15.6 | Parameter detected in associated blank |
| | Magnesium | 0 | U | B | 89.3 | Parameter detected in associated blank |
| | Potassium | 0 | UJ | BE | 48.2 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | BE | 1980 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 10.7 | Parameter detected in associated blank. |
| ACS-GWFB05-03 | Potassium | 0 | UJ | BE | 38.3 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | B | 2400 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 11.3 | Parameter detected in associated blank. |
| ACS-GWM01S-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 891 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 251000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | UJ | B | 8.3 | Parameter detected in associated blank |
| | Magnesium | 91100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 38100 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 125000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.3 | Parameter detected in associated blank. |
| ACS-GWM03S-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 257 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 134000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 5 | U | B | 1 | Parameter detected in associated blank |
| | Magnesium | 39000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 13400 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 18.9 | Parameter detected in associated blank. |
| ACS-GWM03S-93 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 137 | J | BN | 10 | Parameter detected in associated blank |
| | Calcium | 131000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 3.9 | Parameter detected in associated blank |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWM03S-93 | Magnesium | 38100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 13400 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42500 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 15.3 | Parameter detected in associated blank. |
| ACS-GWM04D-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 1140 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 88000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 4.2 | Parameter detected in associated blank |
| | Magnesium | 41000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4640 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 70600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 13.1 | Parameter detected in associated blank. |
| ACS-GWM04S-03 | Methylene Chloride | 0 | UJ | U | 80 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 80 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 1120 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 281000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 10.8 | Parameter detected in associated blank |
| | Magnesium | 47800 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 22800 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 72800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 29.8 | Parameter detected in associated blank. |
| ACS-GWMW06-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 140 | J | | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 180 | J | BN | 10 | Parameter detected in associated blank |
| | Calcium | 174000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 7.5 | Parameter detected in associated blank |
| | Magnesium | 34200 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 16900 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 79300 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 20.4 | Parameter detected in associated blank. |
| ACS-GWMW07-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 1250 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 102000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 11.3 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 28600 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2190 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 20200 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 29.6 | Parameter detected in associated blank. |
| ACS-GWMW08-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 22 | Calibration criteria exceeded. |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW08-03 | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 839 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 55200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 7.3 | Parameter detected in associated blank |
| | Magnesium | 17700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 1410 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 13500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 33.7 | Parameter detected in associated blank. |
| ACS-GWMW09-03 | Isophorone | 0.7 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Copper | 0 | U | B | 6 | Parameter detected in associated blank |
| | Potassium | 11000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 66400 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.1 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 23.4 | Parameter detected in associated blank. |
| ACS-GWMW10C-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded |
| | Aluminum | 6990 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 141000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 45.5 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 65900 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 7460 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 158000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 119 | J | | 1 | Parameter detected in associated blank. |
| ACS-GWMW11-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 0 | U | | 23 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.9 | Parameter detected in associated blank |
| | Lead | 0 | U | | 4.6 | Parameter detected in associated blank |
| | Potassium | 1150 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | B | 4890 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 14.1 | Parameter detected in associated blank. |
| ACS-GWMW12-03 | Chlorobenzene | 5 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Dimethylphthalate | 3 | J | J | 20 | Calibration criteria exceeded. |
| | Antimony | 0 | U | B | 1.2 | Parameter detected in associated blank |
| | Arsenic | 7.8 | J | B | 2 | Parameter detected in associated blank |
| | Chromium | 8.9 | J | B | 1 | Parameter detected in associated blank |
| | Cobalt | 2.4 | J | B | 1 | Parameter detected in associated blank |
| | Copper | 15 | J | B | 1 | Parameter detected in associated blank |
| | Potassium | 2930 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 10600 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.3 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 27.1 | Parameter detected in associated blank. |
| ACS-GWMW13-03 | Methylene Chloride | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Phenol | 7 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Bis(2-Ethylhexyl)Phthalate | 2 | J | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 172 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.3 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 1.9 | Parameter detected in associated blank |
| | Potassium | 2020 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 24600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.1 | Parameter detected in associated blank. |
| ACS-GWMW14-03 | Toluene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Bis(2-Ethylhexyl)Phthalate | 3 | J | J | 10 | Parameter detected in associated blank. |
| | Antimony | 0 | U | B | 1.3 | Parameter detected in associated blank |
| | Potassium | 6440 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 11600 | Parameter detected in associated blank. ICP Criteria exceeded. |
| ACS-GWMW15-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | B | 27 | Parameter detected in associated blank. |
| | Aluminum | 487 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 73000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 13.2 | J | B | 1 | Parameter detected in associated blank |

Summary of Qualified Data
**Groundwater Monitoring Round 4**
American Chemical Service, Inc.
**Griffith, Indiana**

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW15-03 | Magnesium | 74300 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 118000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 415000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.8 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 17.9 | Parameter detected in associated blank. |
| ACS-GWMW18-03 | Aluminum | 0 | U | B | 35.7 | Parameter detected in associated blank |
| | Iron | 0 | U | | 208 | Parameter detected in associated blank |
| | Potassium | 3220 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 67500 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.8 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 20.2 | Parameter detected in associated blank. |
| | TKN | 0.499 | J | | 0.1 | Duplicate QC criteria exceeded |
| ACS-GWMW19-03 | Benzene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Potassium | 98000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 719000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 4.7 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 16.1 | Parameter detected in associated blank. |
| ACS-GWMW21-03 | Acetone | 0 | U | J | 12 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 54.6 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 4.8 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 4.2 | Parameter detected in associated blank |
| | Potassium | 4330 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 38600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 15.8 | Parameter detected in associated blank. |
| ACS-GWMW22-03 | Antimony | 0 | U | B | 3.8 | Parameter detected in associated blank |
| | Potassium | 24700 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 338000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.6 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 17.6 | Parameter detected in associated blank. |
| ACS-GWMW23-03 | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 7.7 | Parameter detected in associated blank |
| | Potassium | 3940 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 32.9 | Parameter detected in associated blank. |
| ACS-GWMW24-03 | Phenol | 0 | U | | 15 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Potassium | 6240 | J | E | 16 | ICP Criteria exceeded. |
| ACS-GWMW28-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 37 | J | | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | gamma-BHC (Lindane) | 0 | UJ | U | 0.05 | MS Criteria exceeded. |
| | Aluminum | 2850 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 96800 | J | | 8 | Parameter detected in associated blank |
| | Copper | 40.5 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 39700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2980 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 16400 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.5 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 42.2 | Parameter detected in associated blank. |
| ACS-GWMW29-03 | Bis(2-Ethylhexyl)Phthalate | 5 | J | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 99.5 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 1.7 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.5 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 5 | Parameter detected in associated blank |
| | Potassium | 2950 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 73900 | J | E | 76 | ICP Criteria exceeded. |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW29-03 | Zinc | 0 | U | B | 10.9 | Parameter detected in associated blank. |
| ACS-GWMW30-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 1830 | J | N | 10 | Parameter detected in associated blank |
| | Antimony | 0 | U | B | 1.1 | Parameter detected in associated blank |
| | Potassium | 3260 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 39.5 | Parameter detected in associated blank. |
| ACS-GWMW31-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 1890 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 94900 | J | | 8 | Parameter detected in associated blank |
| | Copper | 43.7 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 34100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2410 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 19800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 37.6 | Parameter detected in associated blank. |
| ACS-GWMW32-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 780 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 75200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 13.4 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 47500 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4630 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 35400 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 30.8 | Parameter detected in associated blank. |
| ACS-GWMW33-03 | Benzene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Isophorone | 1 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | Aluminum | 0 | U | B | 195 | Parameter detected in associated blank |
| | Potassium | 15500 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 178000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 16 | Parameter detected in associated blank. |
| ACS-GWMW34-03 | Toluene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Aluminum | 0 | U | B | 167 | Parameter detected in associated blank |
| | Potassium | 4480 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 37200 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.6 | Parameter detected in associated blank. |
| ACS-GWMW36-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | Aluminum | 4770 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 75400 | J | | 8 | Parameter detected in associated blank |
| | Copper | 37.9 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 46600 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4690 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 40600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 45.7 | Parameter detected in associated blank. |
| ACS-GWMW37-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.1 | Parameter detected in associated blank |
| | Potassium | 2060 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 23.7 | Parameter detected in associated blank. |
| ACS-GWMW37-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | [illegible] | Calibration criteria exceeded. |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW37-93 | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |
| | Potassium | 1990 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 22 | Parameter detected in associated blank. |
| ACS-GWMW38-03 | Phenol | 0 | U | J | 10 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 10 | Parameter detected in associated blank |
| | Potassium | 959 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 7380 | Parameter detected in associated blank. |
| | Nitrite | 0 | UJ | | 0.02 | Holdtime exceeded |
| ACS-GWMW39-03 | Phenol | 0 | U | | 33 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.6 | Parameter detected in associated blank |
| | Lead | 0 | U | B | 1.6 | Parameter detected in associated blank |
| | Potassium | 8190 | J | E | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.8 | Parameter detected in associated blank. |
| | Nitrite | 0 | UJ | | 0.02 | Holdtime exceeded |
| ACS-GWMW40-03 | Phenol | 0 | U | | 20 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 7.8 | Parameter detected in associated blank |
| | Potassium | 2220 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 5560 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 35.1 | Parameter detected in associated blank. |
| ACS-GWMW40-93 | Acetone | 0 | U | | 15 | Parameter detected in associated blank. |
| | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 0 | U | J | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.4 | Parameter detected in associated blank |
| | Lead | 0 | U | | 5.4 | Parameter detected in associated blank |
| | Potassium | 1180 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | B | 4950 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 14.8 | Parameter detected in associated blank. |
| ACS-GWMW41-03 | Potassium | 964 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 9560 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.4 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 30.3 | Parameter detected in associated blank. |
| ACS-GWMW42-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 41 | J | | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 5.7 | Parameter detected in associated blank |
| | Potassium | 2350 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 30.4 | Parameter detected in associated blank |
| ACS-GWMW43-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 75 | J | | 30 | Parameter detected in associated blank. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Hexachlorobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Potassium | 5610 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 15100 | Parameter detected in associated blank. |
| ACS-GWMW44-03 | Dimethylphthalate | 0 | J | J | 10 | Calibration criteria exceeded. |
| | Chromium | 0 | U | B | 4 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 3.6 | Parameter detected in associated blank |
| | Potassium | 1170 | J | BE | 16 | ICP Criteria exceeded |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW44-03 | Sodium | 18900 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.1 | Parameter detected in associated blank. |
| ACS-GWMW45-03 | Chlorobenzene | 26 | J | J | 80 | Compound reported less than CRQL but greater than IDL. |
| | Xylene (total) | 33 | J | J | 80 | Compound reported less than CRQL but greater than IDL. |
| | Bis(2-Chloroethyl)Ether | 13 | J | J | 20 | Calibration criteria exceeded. |
| | 1,4-Dichlorobenzene | 3 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | 1,2-Dichlorobenzene | 5 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | 2,2'-oxybis(1-Chloropropane) | 7 | J | J | 20 | Calibration criteria exceeded. |
| | 2-Methylnaphthalene | 5 | J | J | 20 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | B | 100 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 3 | Parameter detected in associated blank |
| | Potassium | 8350 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 101000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 16 | Parameter detected in associated blank. |
| ACS-GWMW46-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | B | 186 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.6 | Parameter detected in associated blank |
| | Lead | 0 | U | B | 1.6 | Parameter detected in associated blank |
| | Potassium | 1190 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 11.8 | Parameter detected in associated blank. |
| ACS-GWMW47-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 724 | J | N | 10 | Parameter detected in associated blank |
| | Antimony | 0 | U | B | 1.2 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 2.1 | Parameter detected in associated blank |
| | Potassium | 959 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 6750 | Parameter detected in associated blank. |
| | Thallium | 0 | U | B | 4.3 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 19.5 | Parameter detected in associated blank. |
| ACS-GWMW48-03 | Phenol | 8 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Potassium | 8270 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42700 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 52.9 | Parameter detected in associated blank. |
| ACS-GWMW49-03 | Methylene Chloride | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 1130 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 80300 | J | | 8 | Parameter detected in associated blank |
| | Copper | 6.3 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 9980 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 5480 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 25800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 44 | Parameter detected in associated blank. |
| ACS-GWMW49-93 | Phenol | 120 | J | | 20 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 25 | J | | 20 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.3 | Parameter detected in associated blank |
| | Potassium | 6320 | J | E | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 34.9 | Parameter detected in associated blank. |
| ACS-GWMW50-03 | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 150 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 150 | Calibration criteria exceeded. |
| | Aluminum | 12900 | J | N | 10 | Parameter detected in associated blank |
| | Potassium | 21000 | J | E | 16 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.2 | Parameter detected in associated blank. |
| ACS-GWMW51-03 | Aluminum | 1040 | J | N | 10 | Parameter detected in associated blank |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW51-03 | Potassium | 3880 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 108000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 18.9 | Parameter detected in associated blank. |
| ACS-GWMW51-93 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 1130 | J | N | 10 | Parameter detected in associated blank |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |
| | Potassium | 3880 | J | BE | 16 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 3.1 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 20 | Parameter detected in associated blank. |
| ACS-GWMW52-03 | Phenol | 0 | U | | 33 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.1 | Parameter detected in associated blank |
| | Potassium | 3640 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.7 | Parameter detected in associated blank. |
| ACS-GWMW53-03 | Methylene Chloride | 0 | U | J | 10 | Calibration criteria exceeded. |
| | Acetone | 0 | U | | 12 | Parameter detected in associated blank. |
| | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 5 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 50 | J | | 10 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | | 12 | Parameter detected in associated blank. |
| | Potassium | 29000 | J | E | 16 | ICP Criteria exceeded. |
| ACS-GWMW54-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | Aluminum | 1980 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 126000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 39.3 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 52000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2750 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 28700 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 53.6 | Parameter detected in associated blank. |
| ACS-GWMW55-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 6100 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 78200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 54.1 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 47700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 6660 | J | E | 16 | ICP Criteria exceeded |
| | Sodium | 49500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 77.1 | Parameter detected in associated blank. |
| ACS-GWTB02-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| ACS-GWTB04-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWFB01-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | BN | 22.8 | Parameter detected in associated blank |
| | Calcium | 152 | J | B | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 3.2 | Parameter detected in associated blank |
| | Magnesium | 0 | U | B | 34 | Parameter detected in associated blank |
| | Potassium | 0 | UJ | BE | 30.5 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | BE | 1760 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Zinc | 0 | U | | 45.8 | Parameter detected in associated blank. |
| ACS-GWFB02-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Potassium | 0 | J | UE | 16 | ICP Criteria exceeded. |
| ACS-GWFB03-03 | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Potassium | 34.7 | J | BE | 16 | ICP Criteria exceeded. |
| ACS-GWFB04-03 | Aluminum | 0 | U | B | 15.6 | Parameter detected in associated blank |
| | Magnesium | 0 | U | B | 89.3 | Parameter detected in associated blank |
| | Potassium | 0 | UJ | BE | 48.2 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | BE | 1980 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 10.7 | Parameter detected in associated blank. |
| ACS-GWFB05-03 | Potassium | 0 | UJ | BE | 38.3 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Sodium | 0 | UJ | B | 2400 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 11.3 | Parameter detected in associated blank. |
| ACS-GWM01S-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 891 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 251000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | UJ | B | 8.3 | Parameter detected in associated blank |
| | Magnesium | 91100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 38100 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 125000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.3 | Parameter detected in associated blank. |
| ACS-GWM03S-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 257 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 134000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 5 | U | B | 1 | Parameter detected in associated blank |
| | Magnesium | 39000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 13400 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 18.9 | Parameter detected in associated blank. |
| ACS-GWM03S-93 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 137 | J | BN | 10 | Parameter detected in associated blank |
| | Calcium | 131000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 3.9 | Parameter detected in associated blank |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWM03S-93 | Magnesium | 38100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 13400 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42500 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 15.3 | Parameter detected in associated blank. |
| ACS-GWM04D-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 1140 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 88000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 4.2 | Parameter detected in associated blank |
| | Magnesium | 41000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4640 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 70600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 13.1 | Parameter detected in associated blank. |
| ACS-GWM04S-03 | Methylene Chloride | 0 | UJ | U | 80 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 80 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 1120 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 281000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 10.8 | Parameter detected in associated blank |
| | Magnesium | 47800 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 22800 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 72800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 29.8 | Parameter detected in associated blank. |
| ACS-GWMW06-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 140 | J | | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | Aluminum | 180 | J | BN | 10 | Parameter detected in associated blank |
| | Calcium | 174000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 7.5 | Parameter detected in associated blank |
| | Magnesium | 34200 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 16900 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 79300 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 20.4 | Parameter detected in associated blank. |
| ACS-GWMW07-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 1280 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 102000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 11.3 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 28600 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2190 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 20200 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 29.5 | Parameter detected in associated blank. |
| ACS-GWMW08-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW08-03 | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 839 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 55200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 7.3 | Parameter detected in associated blank |
| | Magnesium | 17700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 1410 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 13500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 33.7 | Parameter detected in associated blank. |
| ACS-GWMW09-03 | Isophorone | 0.7 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Copper | 0 | U | B | 6 | Parameter detected in associated blank |
| | Potassium | 11000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 66400 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.1 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 23.4 | Parameter detected in associated blank. |
| ACS-GWMW10C-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 6990 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 141000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 45.5 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 65900 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 7460 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 158000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 119 | J | | 1 | Parameter detected in associated blank. |
| ACS-GWMW11-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 0 | U | | 23 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.9 | Parameter detected in associated blank |
| | Lead | 0 | U | | 4.6 | Parameter detected in associated blank |
| | Potassium | 1150 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | B | 4890 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 14.1 | Parameter detected in associated blank. |
| ACS-GWMW12-03 | Chlorobenzene | 5 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Dimethylphthalate | 3 | J | J | 20 | Calibration criteria exceeded. |
| | Antimony | 0 | U | B | 1.2 | Parameter detected in associated blank |
| | Arsenic | 7.8 | J | B | 2 | Parameter detected in associated blank |
| | Chromium | 8.9 | J | B | 1 | Parameter detected in associated blank |
| | Cobalt | 2.4 | J | B | 1 | Parameter detected in associated blank |
| | Copper | 15 | J | B | 1 | Parameter detected in associated blank |
| | Potassium | 2930 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 10600 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.3 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 27.1 | Parameter detected in associated blank. |
| ACS-GWMW13-03 | Methylene Chloride | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Phenol | 7 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Bis(2-Ethylhexyl)Phthalate | 2 | J | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 172 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.3 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 1.9 | Parameter detected in associated blank |
| | Potassium | 2020 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 24600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.1 | Parameter detected in associated blank. |
| ACS-GWMW14-03 | Toluene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL |
| | Bis(2-Ethylhexyl)Phthalate | 3 | J | J | 10 | Parameter detected in associated blank. |
| | Antimony | 0 | U | B | 1.3 | Parameter detected in associated blank |
| | Potassium | 6440 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 11600 | Parameter detected in associated blank. ICP Criteria exceeded. |
| ACS-GWMW15-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | B | 27 | Parameter detected in associated blank. |
| | Aluminum | 487 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 73000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 13.2 | J | B | 1 | Parameter detected in associated blank |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW15-03 | Magnesium | 74300 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 118000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 415000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.8 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 17.9 | Parameter detected in associated blank. |
| ACS-GWMW18-03 | Aluminum | 0 | U | B | 35.7 | Parameter detected in associated blank |
| | Iron | 0 | U | | 208 | Parameter detected in associated blank |
| | Potassium | 3220 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 67500 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.8 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 20.2 | Parameter detected in associated blank. |
| | TKN | 0.499 | J | | 0.1 | Duplicate QC criteria exceeded |
| ACS-GWMW19-03 | Benzene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Potassium | 98000 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 719000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 4.7 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 16.1 | Parameter detected in associated blank. |
| ACS-GWMW21-03 | Acetone | 0 | U | J | 12 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 54.6 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 4.8 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 4.2 | Parameter detected in associated blank |
| | Potassium | 4330 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 38600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 15.8 | Parameter detected in associated blank. |
| ACS-GWMW22-03 | Antimony | 0 | U | B | 3.8 | Parameter detected in associated blank |
| | Potassium | 24700 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 338000 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.6 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 17.6 | Parameter detected in associated blank. |
| ACS-GWMW23-03 | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 7.7 | Parameter detected in associated blank |
| | Potassium | 3940 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 32.9 | Parameter detected in associated blank. |
| ACS-GWMW24-03 | Phenol | 0 | U | | 15 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Potassium | 6240 | J | E | 16 | ICP Criteria exceeded. |
| ACS-GWMW28-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 37 | J | | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | JB | 10 | Parameter detected in associated blank. |
| | gamma-BHC (Lindane) | 0 | UJ | U | 0.05 | MS Criteria exceeded. |
| | Aluminum | 2850 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 96800 | J | | 3 | Parameter detected in associated blank |
| | Copper | 40.5 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 39700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2980 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 16400 | J | E | 76 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.5 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 42.2 | Parameter detected in associated blank. |
| ACS-GWMW29-03 | Bis(2-Ethylhexyl)Phthalate | 6 | J | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 0 | U | B | 96.5 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 1.7 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.5 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 5 | Parameter detected in associated blank |
| | Potassium | 2950 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 73000 | J | E | 76 | ICP Criteria exceeded |

# Summary of Qualified Data
# Groundwater Monitoring Round 4
# American Chemical Service, Inc.
# Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW29-03 | Zinc | 0 | U | B | 10.9 | Parameter detected in associated blank. |
| ACS-GWMW30-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 1830 | J | N | 10 | Parameter detected in associated blank |
| | Antimony | 0 | U | B | 1.1 | Parameter detected in associated blank |
| | Potassium | 3260 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 39.5 | Parameter detected in associated blank. |
| ACS-GWMW31-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 1890 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 94900 | J | | 8 | Parameter detected in associated blank |
| | Copper | 43.7 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 34100 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2410 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 19800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 37.6 | Parameter detected in associated blank. |
| ACS-GWMW32-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 780 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 75200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 13.4 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 47500 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4630 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 35400 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 30.8 | Parameter detected in associated blank. |
| ACS-GWMW33-03 | Benzene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Isophorone | 1 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | Aluminum | 0 | U | B | 195 | Parameter detected in associated blank |
| | Potassium | 15500 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 178000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 16 | Parameter detected in associated blank. |
| ACS-GWMW34-03 | Toluene | 1 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Aluminum | 0 | U | B | 167 | Parameter detected in associated blank |
| | Potassium | 4480 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 37200 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.6 | Parameter detected in associated blank. |
| ACS-GWMW36-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | Aluminum | 4770 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 75400 | J | | 8 | Parameter detected in associated blank |
| | Copper | 37.9 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 46600 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 4690 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 40600 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 45.7 | Parameter detected in associated blank. |
| ACS-GWMW37-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.1 | Parameter detected in associated blank. |
| | Potassium | 2060 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 23.7 | Parameter detected in associated blank. |
| ACS-GWMW37-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |

# Summary of Qualified Data
# Groundwater Monitoring Round 4
# American Chemical Service, Inc.
# Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW37-93 | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |
| | Potassium | 1990 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 22 | Parameter detected in associated blank. |
| ACS-GWMW38-03 | Phenol | 0 | U | J | 10 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 10 | Parameter detected in associated blank |
| | Potassium | 959 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 7380 | Parameter detected in associated blank. |
| | Nitrite | 0 | UJ | | 0.02 | Holdtime exceeded |
| ACS-GWMW39-03 | Phenol | 0 | U | | 33 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.6 | Parameter detected in associated blank |
| | Lead | 0 | U | B | 1.6 | Parameter detected in associated blank |
| | Potassium | 8190 | J | E | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.8 | Parameter detected in associated blank. |
| | Nitrite | 0 | UJ | | 0.02 | Holdtime exceeded |
| ACS-GWMW40-03 | Phenol | 0 | U | | 20 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 7.8 | Parameter detected in associated blank |
| | Potassium | 2220 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 5560 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 35.1 | Parameter detected in associated blank. |
| ACS-GWMW40-93 | Acetone | 0 | U | | 15 | Parameter detected in associated blank. |
| | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 0 | U | J | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Copper | 0 | U | B | 3.4 | Parameter detected in associated blank |
| | Lead | 0 | U | | 5.4 | Parameter detected in associated blank |
| | Potassium | 1180 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | B | 4950 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 14.8 | Parameter detected in associated blank |
| ACS-GWMW41-03 | Potassium | 964 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | UJ | E | 9560 | Parameter detected in associated blank. ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.4 | Parameter detected in associated blank. |
| | Zinc | 0 | U | | 30.3 | Parameter detected in associated blank. |
| ACS-GWMW42-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 41 | J | | 10 | Parameter detected in associated blank. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 5.7 | Parameter detected in associated blank |
| | Potassium | 2350 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 30.4 | Parameter detected in associated blank. |
| ACS-GWMW43-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 75 | J | | 30 | Parameter detected in associated blank. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Hexachlorobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Potassium | 5610 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 13100 | Parameter detected in associated blank. |
| ACS-GWMW44-03 | Dimethylphthalate | 9 | J | J | 10 | Calibration criteria exceeded. |
| | Chromium | 0 | U | B | 4 | Parameter detected in associated blank |
| | Nickel | 0 | U | B | 3.6 | Parameter detected in associated blank |
| | Potassium | 1370 | J | BE | 16 | ICP Criteria exceeded. |

# Summary of Qualified Data
# Groundwater Monitoring Round 4
# American Chemical Service, Inc.
# Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW44-03 | Sodium | 18900 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 12.1 | Parameter detected in associated blank. |
| ACS-GWMW45-03 | Chlorobenzene | 26 | J | J | 80 | Compound reported less than CRQL but greater than IDL. |
| | Xylene (total) | 33 | J | J | 80 | Compound reported less than CRQL but greater than IDL. |
| | Bis(2-Chloroethyl)Ether | 13 | J | J | 20 | Calibration criteria exceeded. |
| | 1,4-Dichlorobenzene | 3 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | 1,2-Dichlorobenzene | 5 | J | J | 20 | Compound reported less than CRQL but greater than IDL. |
| | 2,2'-oxybis(1-Chloropropane) | 7 | J | J | 20 | Calibration criteria exceeded. |
| | 2-Methylnaphthalene | 5 | J | J | 20 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | B | 100 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 3 | Parameter detected in associated blank |
| | Potassium | 8350 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 101000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 16 | Parameter detected in associated blank. |
| ACS-GWMW46-03 | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Aluminum | 0 | U | B | 186 | Parameter detected in associated blank |
| | Copper | 0 | U | B | 2.6 | Parameter detected in associated blank |
| | Lead | 0 | U | B | 1.6 | Parameter detected in associated blank |
| | Potassium | 1190 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 11.8 | Parameter detected in associated blank. |
| ACS-GWMW47-03 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 724 | J | N | 10 | Parameter detected in associated blank |
| | Antimony | 0 | U | B | 1.2 | Parameter detected in associated blank |
| | Chromium | 0 | U | B | 2.1 | Parameter detected in associated blank |
| | Potassium | 959 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 0 | U | | 6750 | Parameter detected in associated blank. |
| | Thallium | 0 | U | B | 4.3 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 19.5 | Parameter detected in associated blank. |
| ACS-GWMW48-03 | Phenol | 8 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | Potassium | 8270 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 42700 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 52.9 | Parameter detected in associated blank. |
| ACS-GWMW49-03 | Methylene Chloride | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 400 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 400 | Calibration criteria exceeded |
| | Nitrobenzene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Aluminum | 1130 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 80300 | J | | 8 | Parameter detected in associated blank |
| | Copper | 6.3 | J | B | 1 | Parameter detected in associated blank |
| | Magnesium | 9980 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 5480 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 25800 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 44 | Parameter detected in associated blank. |
| ACS-GWMW49-93 | Phenol | 120 | J | | 20 | Parameter detected in associated blank. |
| | 2,2'-Oxybis(1-Chloropropane) | 25 | J | | 20 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 20 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 50 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.3 | Parameter detected in associated blank |
| | Potassium | 6320 | J | E | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 34.9 | Parameter detected in associated blank. |
| ACS-GWMW50-03 | 2,2'-Oxybis(1-Chloropropane) | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 60 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 150 | Calibration criteria exceeded |
| | 4-Nitrophenol | 0 | UJ | U | 150 | Calibration criteria exceeded |
| | Aluminum | 12000 | J | N | 10 | Parameter detected in associated blank |
| | Potassium | 21000 | J | E | 16 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 2.2 | Parameter detected in associated blank. |
| ACS-GWMW51-03 | Aluminum | 1040 | J | N | 10 | Parameter detected in associated blank |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |

# Summary of Qualified Data
## Groundwater Monitoring Round 4
## American Chemical Service, Inc.
## Griffith, Indiana

| Sample ID | Parameter | CONC | DVQ | LQ | RDL | Comment |
|---|---|---|---|---|---|---|
| ACS-GWMW51-03 | Potassium | 3880 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 108000 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | B | 18.9 | Parameter detected in associated blank. |
| ACS-GWMW51-93 | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | J | 10 | Parameter detected in associated blank. |
| | Aluminum | 1130 | J | N | 10 | Parameter detected in associated blank |
| | Lead | 0 | U | | 3.9 | Parameter detected in associated blank |
| | Potassium | 3880 | J | BE | 16 | ICP Criteria exceeded. |
| | Thallium | 0 | U | B | 3.1 | Parameter detected in associated blank. |
| | Zinc | 0 | U | B | 20 | Parameter detected in associated blank. |
| ACS-GWMW52-03 | Phenol | 0 | U | | 33 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Lead | 0 | U | | 4.1 | Parameter detected in associated blank |
| | Potassium | 3640 | J | BE | 16 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 21.7 | Parameter detected in associated blank. |
| ACS-GWMW53-03 | Methylene Chloride | 0 | U | J | 10 | Calibration criteria exceeded. |
| | Acetone | 0 | U | | 12 | Parameter detected in associated blank. |
| | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 5 | J | J | 10 | Compound reported less than CRQL but greater than IDL. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Phenol | 50 | J | | 10 | Parameter detected in associated blank. |
| | 2,2'-oxybis(1-Chloropropane) | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | N-Nitrosodi-N-Propylamine | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Bis(2-Ethylhexyl)Phthalate | 0 | U | | 12 | Parameter detected in associated blank. |
| | Potassium | 29000 | J | E | 16 | ICP Criteria exceeded. |
| ACS-GWMW54-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Disulfide | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 1,1,1-Trichloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Carbon Tetrachloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Nitrobenzene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 30 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 75 | Calibration criteria exceeded. |
| | Aluminum | 1980 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 126000 | J | | 8 | Parameter detected in associated blank |
| | Copper | 39.3 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 52000 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 2750 | J | BE | 16 | ICP Criteria exceeded. |
| | Sodium | 28700 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 53.6 | Parameter detected in associated blank |
| ACS-GWMW55-03 | Bromomethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Chloroethane | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Hexachlorobutadiene | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Chloro-3-Methylphenol | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Nitroaniline | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | 4-Nitrophenol | 0 | UJ | U | 25 | Calibration criteria exceeded. |
| | Aluminum | 5130 | J | N | 10 | Parameter detected in associated blank |
| | Calcium | 78200 | J | | 8 | Parameter detected in associated blank |
| | Copper | 54.1 | J | | 1 | Parameter detected in associated blank |
| | Magnesium | 47700 | J | | 3 | Parameter detected in associated blank |
| | Potassium | 6660 | J | E | 16 | ICP Criteria exceeded. |
| | Sodium | 49500 | J | E | 76 | ICP Criteria exceeded. |
| | Zinc | 0 | U | | 77.1 | Parameter detected in associated blank |
| ACS-GWTB02-03 | Methylene Chloride | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | Bromoform | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| ACS-GWTB[illegible]-03 | 2-Butanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 4-Methyl-2-Pentanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |
| | 2-Hexanone | 0 | UJ | U | 10 | Calibration criteria exceeded. |

H

# APPENDIX H

## BLACK & VEATCH SPLIT GROUNDWATER ANALYTICAL RESULTS

*Results not yet received from Black & Veatch*
*– will forward when received.*