EPA Region 5 Records Ctr.
205313

000043

# TECHNICAL MEMORANDUM
# WETLAND INVESTIGATION

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

APPENDIX A (continued)
VOLUME II OF II

*PREPARED FOR:*
ACS RD/RA EXECUTIVE COMMITTEE
• • •
*PREPARED BY:*
MONTGOMERY WATSON
*ADDISON, ILLINOIS*

MAY 1997

MONTGOMERY WATSON

IEA SDG NARRATIVE VOLATILE FRACTION

PROJECT: 1589-161 BATCH: 05479 METHOD: 1/91 SOW

Samples: Twenty (20) Soil Samples

The samples were received at Industrial and Environmental Analysts, Inc. (IEA) on May 22,1996. Each sample was assigned a 9-character "IEA" lab identification number (lab ID) and a truncated client ID (for forms generation). This package makes reference to these ID's as listed on the IEA Assigned Number Index. In addition the pH for the water samples are listed on this index. All analyses were performed according to EPA 1/91 SOW and meet the requirements of the IEA Quality Assurance Program. Please see the enclosed data package for your results and Chain of Custody (COC) documentation.

There is an air peak that is common to all of the volatile analyses and a solvent peak that is common to some volatile analyses. These peaks are present at the beginning of the Reconstructed Ion Chromatograms (RIC) and are labeled. These peaks are not searched as Tentatively Identified Compounds.

The chromatographic separation of the analytes is performed using a J & W Scientific 75 m X 0.53 mm DB-624 fused silica capillary column with a 3.0 $\mu$m film thickness.

The trap used in the purge-and-trap apparatus is a Supelco trap K (VOCARB 3000) consisting of 10 cm of Carbopack B, 6 cm of Carboxen 1000, and 1 cm of Carboxen 1001. This trap meets the criteria in the SOW for contract OLM03.1 for an equivalent trap. Documentation is maintained within the QA department for-site review.

The "J" flag used on the Form I VOA indicates an estimated concentration between the Contract Required Quantitation Limit (CRQL) and the Method Detection Limit (MDL), not accounting for dilution of the sample prior to analysis. This flag is also used on the Form I VOA-TIC to indicate an estimated amount for all non-target concentrations.

The "N" flag used on the Form I VOA-TIC indicates that there is the presumptive evidence of a compound based on the mass spectral library search and the interpretation of the mass spectral interpretation specialist.

The "B" flag used on the Form I VOA and/or Form I VOA-TIC indicates that this compound was present in the associated method blank.

The "E" flag used on the Form I VOA denotes that the concentration for a target compound exceeded the calibration range set in the SOW OLM03.1

IEA SDG NARRATIVE VOLATILE FRACTION

The "Y" flag is used as a qualifier on the Form I VOA-TIC to indicate a siloxane contaminant attributed to trap breakdown.

The "M" flag used on the data system report form designates that a manual integration was required to provide an accurate quantification of that analyte. Manual integrations have been initialled and dated by the analyst.

The nonconformances associated with the analysis of the samples in this case are as follows:

The following samples were analyzed and reported twice to confirm internal standard and/or surrogate recovery outside method specified limits. This is due to matrix interference. The reanalysis client and sample ID's are designated with the suffix "RE".

| IEA Sample ID | Client ID |
|---|---|
| 9605479-01 | APD-SD29-01 |
| 9605479-02 | APD-SD29-91 |
| 9605479-10 | APD-SD17-01 |
| 9605479-12 | APD-SD33-01 |
| 9605479-13 | APD-SD35-01 |
| 9605479-16 | APD-SD21-01 |
| 9605479-17 | APD-SD20-01 |
| 9605479-19 | APD-SD22-01 |
| 9605479-20 | APD-SD23-01 |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskitte has been authorized by the laboratory manager or his designee, as verified by the following signature.

_____ 06/13/96

Elsie s. Byrd
GC/MS Data Reviewer
IEA, Inc.

IEA SDG NARRATIVE SEMIVOLATILE FRACTION

PROJECT: 1589-161 BATCH: 05479 METHOD: SOW 1/91

Samples: Twenty (20) Soil Samples

The samples were received at Industrial and Environmental Analysts, Inc. (IEA) on 05/22/96. Each sample was assigned a 9-character "IEA" lab identification number (lab ID) and an abbreviated client ID which is referenced on the IEA Assigned Number Index. All analyses are performed in accordance with EPA approved methodologies and meet the requirements of the IEA Quality Assurance Program. Please see the enclosed data package for your results and Chain of Custody documentation.

The chromatographic separation of the analytes was performed using a Restek 30 X 0.32 XTI-5 fused silica capillary column with a 0.5 $\mu$m bonded phase film thickness.

Gel Permeation Cleanup (GPC) was performed using a column series; a 19 X 300 mm Waters UltraStyragel column paired with a 19 X 150 mm Waters UltraStyragel column. The additional column provides the additional resolution needed to achieve the criteria for pesticide analysis. This column combination meets the equivalency criteria stated in paragraph 10.3.2.on page D-34/SVOA of the SOW. A 2 mL injection loop is utilized by the GPC system.

All soil samples underwent GPC as required by the SOW.

Instrument data printouts identify the compound 2,2'-oxybis(1-Chloropropane) with CAS number 108-60-1. Alternative nomenclature for this compound is bis(2-Chloroisopropyl)ether which is included on report forms submitted.

The "J" flag used on the Form I SV indicates an estimated concentration between the CRQL and the Method Detection Limit (MDL). This flag also identifies the estimated concentration of the non-target compounds reported on the Form I SV-TIC.

The "N" flag used on the Form I SV-TIC indicates that there is the presumptive evidence of a compound based on the mass spectral library search and the interpretation of the mass spectral interpretation specialist.

The "B" flag used on the Form I SV-TIC indicates that this compound was present in the associated extraction blank.

The "M" flag used on the data system report form designates that a manual integration was required to provide an accurate quantification of that analyte. Manual integrations have been initialed and dated by the analyst.

The "X" flag is used to designate a non-target which can be attributed to laboratory contamination on the Form I SV-TIC.

Sample SD33 has been reported at a five-fold dilution due to the high concentration of non-target compounds present.

Any nonconformances associated with the analysis of the samples in this project are as follows:

Sample SD33 required re-extraction due to poor surrogate recoveries. The re-extraction was performed outside of the method specified holding time. The re-extract (designated "RE") did not confirm the failing surrogates of the original analyses.

Matrix Spike (SD29MS) percent recovery for Phenol exceeded the limits specified for this method due to better than expected extraction efficiency.

I certify that this data package is in compliance with the procedures and methods defined for this project, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data (if applicable) as submitted has been authorized by the laboratory manager or his designee, as verified by the following signature.

07/01/96

David F. Morse
GC/MS SV Lead Analyst
IEA, Inc.

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203-261-4458
Fax 203-268-5346

June 21, 1996

Mr. Bill Scott
IEA/NC
3000 Weston Parkway
Cary, NC 27513

Dear Mr. Scott:

Please find enclosed the analytical results of 20 samples received at our laboratory on May 22, 1996. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definitions of data qualifiers and terminology
- analytical results
- chain-of-custody

| IEA Report #7096-0962A | Project ID: 1589-161 |
|---|---|

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC/ab

7096-0962A
IEA/NC
PROJECT SUMMARY

The samples were analyzed for the parameters listed in the Analytical Summary Table.

METHODOLOGY/DISCUSSION

**Polychlorinated Biphenyls (PCB's)** - PCB samples were extracted and analyzed by GC/ECD using USEPA CLP Protocols, OLM01.9. The instrumentation used was a Hewlett-Packard Gas Chromatograph equipped with an Electron Capture Detector ($Ni^{63}$).

All samples were extracted and concentrated at IEA/NC.

All samples were florisil and GPC cleaned up prior to analysis at IEA/NC.

Interpretation of GPC analysis was done at IEA/NC.

Surrogates were diluted out of samples APD-SD33-01, APD-SD29-01, APD-SD26-01, APD-SD28-01, APD-SD22-01, APD-SD23-01, APD-SD35-01, APD-SD21-01 and APD-SD22-91.

Due to sample matrix, samples APD-SD29-01, APD-SD26-01, APD-SD18-91, APD-SD33-01, APD-SD35-01, APD-SD21-01, APD-SD22-91, APD-SD22-01 and APD-SD23-01 could not be run at a 10 times lower dilution without damage to the column and possibly the detector. Samples run at the 10 times lower dilution caused severe carryover. Three to four samples immediately following the 10 times lower dilution contained carryover such that it masked all target compounds, effectively making these runs useless. One sample, APD-SD34-01, containing carryover has been submitted in the package.

Surrogate percent recoveries for samples APD-SD29-01 MSD, APD-SD29-91, APD-SD30-01, APD-SD27-01, APD-SD20-01, APD-SD19-01, APD-SD34-01, APD-SD32-01, APD-SD17-01 and APD-SD31-01 were outside of advisory QC limits due to sample matrix.

Beta-BHC was outside of retention time windows in standard PEMH8 run at 12:33 on 06/17/96 and in standard INDBMM1 run at 23:55 on 06/17/96 on B5217CLP sequence. Delta-BHC was outside of retention time windows in standard INDBMM1 run at 23:55 on 06/17/96 on B5217CLP sequence. The standards were the bracketting standards for samples APD-SD19-01, APD-SD34-01, APD-SD22-91, APD-SD22-01, APD-SD23-01 and APD-SD21-01. Due to problems with retention time fluctuations, these samples have been rerun several times. They were analyzed for PCB's only and identification of PCB's was based on pattern recognition. There was no extract remaining for some of these samples to be reanalyzed.

Decachlorobiphenyl was not present in standard INDAM58 run at 23:18 on 06/11/96 on B1005CLP sequence due to it having been lost in matrix carryover. Decachlorobiphenyl was present in the INDBM58 standard run at 23:52 on 06/11/96 immediately following.

Aroclor standards AR1660C7, AR1242C7, AR1248C7 and AR1254 run at 21:59, 22:53, 23:47 on 06/13/96 and 00:41 on 06/14/96 did not have end bracketting standards of PIBLK, INDAM and INDBM because of carryover contamination into these standards. The Aroclors run were free of carryover. Aroclor standards AR1660, AR1242, AR1248 and AR1254 were run again when this was realized.

Sample APD-SD19-01 analyzed on sequence B5217CLP had slightly higher results for target compounds due to concentration of the extract. The first analysis of this sample on sequence B5217CLP contained high carryover amounts from the previous sample. The sample could not be re-extracted due to limited sample volume. The sample was analyzed using an already injected vial which had sample concentration.

RESULTS

The results are presented in the following Tables. Also enclosed are the data packages containing all relevant data.

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203-261-4458
Fax 203-268-5346

**7096-0962A**
**IEA/NC**

SDG Narrative

**Polychlorinated Biphenyls (PCB's)** - PCB samples were extracted and analyzed by GC/ECD using USEPA CLP Protocols, OLM01.9. The instrumentation used was a Hewlett-Packard Gas Chromatograph equipped with an Electron Capture Detector ($Ni^{63}$).

All samples were extracted and concentrated at IEA/NC.

All samples were florisil and GPC cleaned up prior to analysis at IEA/NC.

Interpretation of GPC analysis was done at IEA/NC.

Surrogates were diluted out of samples APD-SD33-01, APD-SD29-01, APD-SD26-01, APD-SD28-01, APD-SD22-01, APD-SD23-01, APD-SD35-01, APD-SD21-01 and APD-SD22-91.

Due to sample matrix, samples APD-SD29-01, APD-SD26-01, APD-SD18-91, APD-SD33-01, APD-SD35-01, APD-SD21-01, APD-SD22-91, APD-SD22-01 and APD-SD23-01 could not be run at a 10 times lower dilution without damage to the column and possibly the detector. Samples run at the 10 times lower dilution caused severe carryover. Three to four samples immediately following the 10 times lower dilution contained carryover such that it masked all target compounds, effectively making these runs useless. One sample, APD-SD34-01, containing carryover has been submitted in the package.

Surrogate percent recoveries for samples APD-SD29-01 MSD, APD-SD29-91, APD-SD30-01, APD-SD27-01, APD-SD20-01, APD-SD19-01, APD-SD34-01, APD-SD32-01, APD-SD17-01 and APD-SD31-01 were outside of advisory QC limits due to sample matrix.

Beta-BHC was outside of retention time windows in standard PEMH8 run at 12:33 on 06/17/96 and in standard INDBMM1 run at 23:55 on 06/17/96 on B5217CLP sequence. Delta-BHC was outside of retention time windows in standard INDBMM1 run at 23:55 on 06/17/96 on B5217CLP sequence. The standards were the bracketting standards for samples APD-SD19-01, APD-SD34-01, APD-SD22-91, APD-SD22-01, APD-SD23-01 and APD-SD21-01. Due to problems with retention time fluctuations, these samples have been rerun several times. They were analyzed for PCB's only and identification of PCB's was based on pattern recognition. There was no extract remaining for some of these samples to be reanalyzed.

Decachlorobiphenyl was not present in standard INDAM58 run at 23:18 on 06/11/96 on B1005CLP sequence due to it having been lost in matrix carryover. Decachlorobiphenyl was present in the INDBM58 standard run at 23:52 on 06/11/96 immediately following.

Aroclor standards AR1660C7, AR1242C7, AR1248C7 and AR1254 run at 21:59, 22:53, 23:47 on 06/13/96 and 00:41 on 06/14/96 did not have end bracketting standards of PIBLK, INDAM and INDBM because of carryover contamination into these standards. The Aroclors run were free of carryover. Aroclor standards AR1660,

AR1242, AR1248 and AR1254 were run again when this was realized.

Sample APD-SD19-01 analyzed on sequence B5217CLP had slightly higher results for target compounds due to concentration of the extract. The first analysis of this sample on sequence B5217CLP contained high carryover amounts from the previous sample. The sample could not be re-extracted due to limited sample volume. The sample was analyzed using an already injected vial which had sample concentration.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

June 21, 1996
Date

MONTGOMERY WATSON

# CHAIN OF CUSTODY RECORD

SPECIAL INSTRUCTIONS:
- ☐ PECFA
- ☐ WI LUST
- ☐ ACT 307
- ☐ REPORT DRY WT
- ☐ OTHER:

TURNAROUND
- ☐ 2 WEEKS (standard)
- ☐ 1 WEEK
- ☐ 3 DAYS
- ☐ 1 DAY

PROJECT NAME: ACS

PROJECT #: 4027.0090

CITY: Cameron

STATE: WI

SAMPLER(S): [illegible]

| COLLECTION DATE | COLLECTION TIME | GRAB / COMP | SAMPLE ID | NO. OF CONTAINERS | VOCs | SVOCs | PCBs | | | | | | REMARKS | LAB USE ONLY MATRIX | LAB USE ONLY LAB NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-21-96 | 12:15 | | APD-SD33-01 | 2 | X | X | X | | | | | | 9-32165, 66 | | |
| 5-21-96 | 14:15 | | APD-SD35-01 | 2 | X | X | X | | | | | | 9-32171, 72 | | |
| 5-21-96 | 14:25 | | APD-SD19-01 | 2 | X | X | X | | | | | | 9-32123, 24 | | |
| 5-21-96 | 14:35 | | APD-SD24-01 | 2 | X | X | X | | | | | | 9-32169, 68 | | |
| 5-21-96 | 14:30 | | APD-SD21-01 | 2 | X | X | X | | | | | | 9-32129, 30 | | |
| 5-21-96 | 14:50 | | APD-SD20-01 | 2 | X | X | X | | | | | | 9-32126, 27 | | |
| 5-21-96 | 15:45 | | APD-SD22-01 | 2 | X | X | X | | | | | | 9-32136, 37 | | |
| 5-21-96 | 15:45 | | APD-SD22-01 | 2 | X | X | X | | | | | | 9-32136, 37 | | |
| 5-21-96 | 15:30 | | APD-SD23-01 | 2 | X | X | X | | | | | | 9-32135, 36 | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

SPECIAL INSTRUCTIONS:

PROJ. MGR.: Pete Vagt

TAMPER EVIDENT SEAL INTACT? ____YES ____NO ____NOT PRESENT

SEAL NO.: _____

SAMPLES RECEIVED ON ICE? ____YES ____NO TEMP: 4 °C

1589-1613

| | SIGNATURE | DATE | TIME | | SIGNATURE | DATE | TIME |
|---|---|---|---|---|---|---|---|
| RELINQUISHED BY: | [illegible] | 5-21-96 | 1700 | RECEIVED BY: | [illegible] | [illegible] | [illegible] |
| RELINQUISHED BY | | | | RECEIVED BY: | | | |
| RELINQUISHED BY: | | | | RECEIVED BY: | | | |
| RELINQUISHED BY | | | | RECEIVED FOR LABORATORY BY: | | | |

C-O-C No. 013791

NAME OF COURIER: _____

AIRBILL NUMBER: _____

MONTGOMERY WATSON

# CHAIN OF CUSTODY RECORD

SPECIAL INSTRUCTIONS:
- [ ] PECFA
- [ ] WI LUST
- [ ] ACT 307
- [ ] REPORT DRY WT
- [ ] OTHER:

TURNAROUND
- [ ] 2 WEEKS (standard)
- [ ] 1 WEEK
- [ ] 3 DAYS
- [ ] 1 DAY

PROJECT NAME: ACS

PROJECT #: 4.77.0076

CITY: Griffith

STATE: IN

SAMPLER(S): [illegible]

| COLLECTION DATE | COLLECTION TIME | GRAB / COMP | SAMPLE ID | NO. OF CONTAINERS | VOCs | SVOCs | PCBs | | | | | | REMARKS | LAB USE ONLY MATRIX | LAB USE ONLY LAB NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 21 96 | 8 30 | | APD-SD29-01 | 2 | X | X | X | | | | | | 9-32154, 53 | | |
| 5 21 96 | 8 30 | | APD-SD29-91 | 2 | X | X | X | | | | | | 9-32190, 89 | | |
| 5 21 96 | 9 00 | | APD-SD30-01 | 2 | X | X | X | | | | | | 9-32157, 58 | | |
| [illegible] | [illegible] | | APD-SD[illegible] | 2 | X | X | X | | | | | | 9-32160, 61 | | |
| 5-21-96 | 9 35 | | APD-SD[illegible]-91 | 2 | X | X | X | | | | | | 9-32183, 84 | | |
| 5-21-96 | 10 45 | | APD-SD26-01 | 2 | X | X | X | | | | | | 9-32144, 45 | | |
| 5-21-96 | 11:00 | | APD-SD27-01 | 2 | X | X | X | | | | | | 9-32148, 48 | | |
| 5-21-96 | 10:30 | | APD-SD28-01 | 2 | X | X | X | | | | | | 9-32150, 51 | | |
| 5-21-96 | 11:50A | | APD-SD32-01 | 2 | X | X | X | | | | | | 9-32162, 63 | | |
| 5-21-96 | 12:00 | | APD-SD14-01 | 2 | X | X | X | | | | | | 9-32117, 18 | | |
| 5 21 96 | 12:30 | | APD-SD31-01 | 2 | X | X | X | | | | | | 9-32159, 60 | | |

SPECIAL INSTRUCTIONS:

COC seal # 92 0070 P
[illegible]

TAMPER EVIDENT SEAL INTACT? ____YES ____NO ____NOT PRESENT

SEAL NO.: _____

SAMPLES RECEIVED ON ICE? ____YES ____NO TEMP: 4 °C

PROJ. MGR.: Pete Yatt

[illegible]

| | SIGNATURE | DATE | TIME | | SIGNATURE | DATE | TIME |
|---|---|---|---|---|---|---|---|
| RELINQUISHED BY: | [illegible] | 5/21/96 | [illegible] | RECEIVED BY: | [illegible] | [illegible] | [illegible] |
| RELINQUISHED BY | | | | RECEIVED BY: | | | |
| RELINQUISHED BY: | | | | RECEIVED BY: | | | |
| RELINQUISHED BY | | | | RECEIVED FOR LABORATORY BY: | | | |

C-O-C No. 01[illegible]

NAME OF COURIER: _____

AIRBILL NUMBER: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901

Sample wt/vol: 5 (g/mL) g Lab File ID: 0528J17.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/29/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-01-4 | Vinyl Chloride | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-09-2 | Methylene Chloride | 14 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon Disulfide | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 56-23-5 | Carbon Tetrachloride | 14 | U |
| 75-27-4 | Bromodichloromethane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 79-01-6 | Trichloroethene | 14 | U |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 71-43-2 | Benzene | 14 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 14 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 108-88-3 | Toluene | 14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 108-90-7 | Chlorobenzene | 14 | U |
| 100-41-4 | Ethylbenzene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 1330-20-7 | Xylene (total) | 14 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD29-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901

Sample wt/vol: 5 (g/mL) g Lab File ID: 0528J17.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/29/96

GC Column: DB-624 ID: .53(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/kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | UNKNOWN CYCLIC COMPOUND | 21.62 | 22 | J |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/30/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-01-4 | Vinyl Chloride | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-09-2 | Methylene Chloride | 14 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon Disulfide | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 14 | U |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 56-23-5 | Carbon Tetrachloride | 14 | U |
| 75-27-4 | Bromodichloromethane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 79-01-6 | Trichloroethene | 14 | U |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 71-43-2 | Benzene | 14 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 14 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 108-88-3 | Toluene | 14 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 108-90-7 | Chlorobenzene | 14 | U |
| 100-41-4 | Ethylbenzene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 1330-20-7 | Xylene (total) | 14 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD29-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/30/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 39 Date Analyzed: 05/30/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 16 | U |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD29-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 39 Date Analyzed: 05/30/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-91RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J04.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 39 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 14 | J |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD29-91RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J04.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 39 Date Analyzed: 05/31/96

GC Column: DB-624 ID: .53(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/kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000556-67-2 | CYCLOTETRASILOXANE, OCTAMETH | 21.31 | 61 | JNY |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD30-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547903

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V06.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 53 Date Analyzed: 05/31/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 21 | U |
| 74-83-9 | Bromomethane | 21 | U |
| 75-01-4 | Vinyl Chloride | 21 | U |
| 75-00-3 | Chloroethane | 21 | U |
| 75-09-2 | Methylene Chloride | 21 | U |
| 67-64-1 | Acetone | 25 | |
| 75-15-0 | Carbon Disulfide | 21 | U |
| 75-35-4 | 1,1-Dichloroethene | 21 | U |
| 75-34-3 | 1,1-Dichloroethane | 21 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | J |
| 67-66-3 | Chloroform | 21 | U |
| 107-06-2 | 1,2-Dichloroethane | 21 | U |
| 78-93-3 | 2-Butanone | 21 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 21 | U |
| 56-23-5 | Carbon Tetrachloride | 21 | U |
| 75-27-4 | Bromodichloromethane | 21 | U |
| 78-87-5 | 1,2-Dichloropropane | 21 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 21 | U |
| 79-01-6 | Trichloroethene | 21 | U |
| 124-48-1 | Dibromochloromethane | 21 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 21 | U |
| 71-43-2 | Benzene | 21 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 21 | U |
| 75-25-2 | Bromoform | 21 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 21 | U |
| 591-78-6 | 2-Hexanone | 21 | U |
| 127-18-4 | Tetrachloroethene | 21 | U |
| 108-88-3 | Toluene | 21 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21 | U |
| 108-90-7 | Chlorobenzene | 21 | U |
| 100-41-4 | Ethylbenzene | 21 | U |
| 100-42-5 | Styrene | 21 | U |
| 1330-20-7 | Xylene (total) | 21 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD30-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547903

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V06.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 53 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD18-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547904

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V07.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 36 Date Analyzed: 05/31/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 16 | U |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD18-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547904

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V07.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 36 Date Analyzed: 05/31/96

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/kg

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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD18-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547905

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J07.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 16 | U |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD18-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547905

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J07.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD26-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547906

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 58 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 24 | U |
| 74-83-9 | Bromomethane | 24 | U |
| 75-01-4 | Vinyl Chloride | 24 | U |
| 75-00-3 | Chloroethane | 24 | U |
| 75-09-2 | Methylene Chloride | 24 | U |
| 67-64-1 | Acetone | 24 | U |
| 75-15-0 | Carbon Disulfide | 24 | U |
| 75-35-4 | 1,1-Dichloroethene | 24 | U |
| 75-34-3 | 1,1-Dichloroethane | 24 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 24 | U |
| 67-66-3 | Chloroform | 24 | U |
| 107-06-2 | 1,2-Dichloroethane | 24 | U |
| 78-93-3 | 2-Butanone | 24 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 24 | U |
| 56-23-5 | Carbon Tetrachloride | 24 | U |
| 75-27-4 | Bromodichloromethane | 24 | U |
| 78-87-5 | 1,2-Dichloropropane | 24 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 24 | U |
| 79-01-6 | Trichloroethene | 24 | U |
| 124-48-1 | Dibromochloromethane | 24 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 24 | U |
| 71-43-2 | Benzene | 24 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 24 | U |
| 75-25-2 | Bromoform | 24 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 24 | U |
| 591-78-6 | 2-Hexanone | 24 | U |
| 127-18-4 | Tetrachloroethene | 24 | U |
| 108-88-3 | Toluene | 24 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 24 | U |
| 108-90-7 | Chlorobenzene | 24 | U |
| 100-41-4 | Ethylbenzene | 24 | U |
| 100-42-5 | Styrene | 24 | U |
| 1330-20-7 | Xylene (total) | 24 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD26-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547906

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 58 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD27-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547907

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 54 Date Analyzed: 05/31/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 22 | U |
| 74-83-9 | Bromomethane | 22 | U |
| 75-01-4 | Vinyl Chloride | 22 | U |
| 75-00-3 | Chloroethane | 22 | U |
| 75-09-2 | Methylene Chloride | 22 | U |
| 67-64-1 | Acetone | 18 | J |
| 75-15-0 | Carbon Disulfide | 22 | U |
| 75-35-4 | 1,1-Dichloroethene | 22 | U |
| 75-34-3 | 1,1-Dichloroethane | 22 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 22 | U |
| 67-66-3 | Chloroform | 22 | U |
| 107-06-2 | 1,2-Dichloroethane | 22 | U |
| 78-93-3 | 2-Butanone | 22 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 22 | U |
| 56-23-5 | Carbon Tetrachloride | 22 | U |
| 75-27-4 | Bromodichloromethane | 22 | U |
| 78-87-5 | 1,2-Dichloropropane | 22 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 22 | U |
| 79-01-6 | Trichloroethene | 22 | U |
| 124-48-1 | Dibromochloromethane | 22 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 22 | U |
| 71-43-2 | Benzene | 22 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 22 | U |
| 75-25-2 | Bromoform | 22 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 22 | U |
| 591-78-6 | 2-Hexanone | 22 | U |
| 127-18-4 | Tetrachloroethene | 22 | U |
| 108-88-3 | Toluene | 22 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22 | U |
| 108-90-7 | Chlorobenzene | 22 | U |
| 100-41-4 | Ethylbenzene | 22 | U |
| 100-42-5 | Styrene | 22 | U |
| 1330-20-7 | Xylene (total) | 22 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD27-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547907

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 54 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD28-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547908

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 54 Date Analyzed: 05/31/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 22 | U |
| 74-83-9 | Bromomethane | 22 | U |
| 75-01-4 | Vinyl Chloride | 22 | U |
| 75-00-3 | Chloroethane | 22 | U |
| 75-09-2 | Methylene Chloride | 22 | U |
| 67-64-1 | Acetone | 22 | U |
| 75-15-0 | Carbon Disulfide | 22 | U |
| 75-35-4 | 1,1-Dichloroethene | 22 | U |
| 75-34-3 | 1,1-Dichloroethane | 22 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 22 | U |
| 67-66-3 | Chloroform | 22 | U |
| 107-06-2 | 1,2-Dichloroethane | 22 | U |
| 78-93-3 | 2-Butanone | 22 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 22 | U |
| 56-23-5 | Carbon Tetrachloride | 22 | U |
| 75-27-4 | Bromodichloromethane | 22 | U |
| 78-87-5 | 1,2-Dichloropropane | 22 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 22 | U |
| 79-01-6 | Trichloroethene | 22 | U |
| 124-48-1 | Dibromochloromethane | 22 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 22 | U |
| 71-43-2 | Benzene | 22 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 22 | U |
| 75-25-2 | Bromoform | 22 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 22 | U |
| 591-78-6 | 2-Hexanone | 22 | U |
| 127-18-4 | Tetrachloroethene | 22 | U |
| 108-88-3 | Toluene | 22 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 22 | U |
| 108-90-7 | Chlorobenzene | 22 | U |
| 100-41-4 | Ethylbenzene | 22 | U |
| 100-42-5 | Styrene | 22 | U |
| 1330-20-7 | Xylene (total) | 22 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD28-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547908

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 54 Date Analyzed: 05/31/96

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/kg

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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD32-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547909

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 32 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 15 | U |
| 74-83-9 | Bromomethane | 15 | U |
| 75-01-4 | Vinyl Chloride | 15 | U |
| 75-00-3 | Chloroethane | 15 | U |
| 75-09-2 | Methylene Chloride | 6 | J |
| 67-64-1 | Acetone | 80 | |
| 75-15-0 | Carbon Disulfide | 15 | U |
| 75-35-4 | 1,1-Dichloroethene | 15 | U |
| 75-34-3 | 1,1-Dichloroethane | 15 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | U |
| 67-66-3 | Chloroform | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | 15 | U |
| 78-93-3 | 2-Butanone | 5 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | U |
| 56-23-5 | Carbon Tetrachloride | 15 | U |
| 75-27-4 | Bromodichloromethane | 15 | U |
| 78-87-5 | 1,2-Dichloropropane | 15 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | U |
| 79-01-6 | Trichloroethene | 15 | U |
| 124-48-1 | Dibromochloromethane | 15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | U |
| 71-43-2 | Benzene | 15 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 15 | U |
| 75-25-2 | Bromoform | 15 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 15 | U |
| 591-78-6 | 2-Hexanone | 15 | U |
| 127-18-4 | Tetrachloroethene | 15 | U |
| 108-88-3 | Toluene | 15 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | U |
| 108-90-7 | Chlorobenzene | 15 | U |
| 100-41-4 | Ethylbenzene | 15 | U |
| 100-42-5 | Styrene | 15 | U |
| 1330-20-7 | Xylene (total) | 15 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD32-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547909

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 32 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD17-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 06/01/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 26 | U |
| 74-83-9 | Bromomethane | 26 | U |
| 75-01-4 | Vinyl Chloride | 26 | U |
| 75-00-3 | Chloroethane | 26 | U |
| 75-09-2 | Methylene Chloride | 26 | U |
| 67-64-1 | Acetone | 63 | |
| 75-15-0 | Carbon Disulfide | 26 | U |
| 75-35-4 | 1,1-Dichloroethene | 26 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 26 | U |
| 67-66-3 | Chloroform | 26 | U |
| 107-06-2 | 1,2-Dichloroethane | 26 | U |
| 78-93-3 | 2-Butanone | 26 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 26 | U |
| 56-23-5 | Carbon Tetrachloride | 26 | U |
| 75-27-4 | Bromodichloromethane | 26 | U |
| 78-87-5 | 1,2-Dichloropropane | 26 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 26 | U |
| 79-01-6 | Trichloroethene | 26 | U |
| 124-48-1 | Dibromochloromethane | 26 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 26 | U |
| 71-43-2 | Benzene | 26 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 26 | U |
| 75-25-2 | Bromoform | 26 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 26 | U |
| 591-78-6 | 2-Hexanone | 26 | U |
| 127-18-4 | Tetrachloroethene | 26 | U |
| 108-88-3 | Toluene | 26 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 26 | U |
| 108-90-7 | Chlorobenzene | 26 | U |
| 100-41-4 | Ethylbenzene | 26 | U |
| 100-42-5 | Styrene | 26 | U |
| 1330-20-7 | Xylene (total) | 26 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD17-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 06/01/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD17-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0601K03.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 06/01/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 26 | U |
| 74-83-9 | Bromomethane | 26 | U |
| 75-01-4 | Vinyl Chloride | 26 | U |
| 75-00-3 | Chloroethane | 26 | U |
| 75-09-2 | Methylene Chloride | 26 | U |
| 67-64-1 | Acetone | 77 | |
| 75-15-0 | Carbon Disulfide | 26 | U |
| 75-35-4 | 1,1-Dichloroethene | 26 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 26 | U |
| 67-66-3 | Chloroform | 26 | U |
| 107-06-2 | 1,2-Dichloroethane | 26 | U |
| 78-93-3 | 2-Butanone | 10 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 26 | U |
| 56-23-5 | Carbon Tetrachloride | 26 | U |
| 75-27-4 | Bromodichloromethane | 26 | U |
| 78-87-5 | 1,2-Dichloropropane | 26 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 26 | U |
| 79-01-6 | Trichloroethene | 26 | U |
| 124-48-1 | Dibromochloromethane | 26 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 26 | U |
| 71-43-2 | Benzene | 26 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 26 | U |
| 75-25-2 | Bromoform | 26 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 26 | U |
| 591-78-6 | 2-Hexanone | 26 | U |
| 127-18-4 | Tetrachloroethene | 26 | U |
| 108-88-3 | Toluene | 26 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 26 | U |
| 108-90-7 | Chlorobenzene | 26 | U |
| 100-41-4 | Ethylbenzene | 26 | U |
| 100-42-5 | Styrene | 26 | U |
| 1330-20-7 | Xylene (total) | 26 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD17-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0601K03.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 06/01/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD31-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547911

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 56 Date Analyzed: 06/01/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | - 23 | U |
| 74-83-9 | Bromomethane | 23 | U |
| 75-01-4 | Vinyl Chloride | 23 | U |
| 75-00-3 | Chloroethane | 23 | U |
| 75-09-2 | Methylene Chloride | 23 | U |
| 67-64-1 | Acetone | 37 | |
| 75-15-0 | Carbon Disulfide | 23 | U |
| 75-35-4 | 1,1-Dichloroethene | 23 | U |
| 75-34-3 | 1,1-Dichloroethane | 23 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 23 | U |
| 67-66-3 | Chloroform | 23 | U |
| 107-06-2 | 1,2-Dichloroethane | 23 | U |
| 78-93-3 | 2-Butanone | 23 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 23 | U |
| 56-23-5 | Carbon Tetrachloride | 23 | U |
| 75-27-4 | Bromodichloromethane | 23 | U |
| 78-87-5 | 1,2-Dichloropropane | 23 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 23 | U |
| 79-01-6 | Trichloroethene | 23 | U |
| 124-48-1 | Dibromochloromethane | 23 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 23 | U |
| 71-43-2 | Benzene | 23 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 23 | U |
| 75-25-2 | Bromoform | 23 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 23 | U |
| 591-78-6 | 2-Hexanone | 23 | U |
| 127-18-4 | Tetrachloroethene | 23 | U |
| 108-88-3 | Toluene | 23 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 23 | U |
| 108-90-7 | Chlorobenzene | 23 | U |
| 100-41-4 | Ethylbenzene | 23 | U |
| 100-42-5 | Styrene | 23 | U |
| 1330-20-7 | Xylene (total) | 23 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD31-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547911

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 56 Date Analyzed: 06/01/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD33-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J14.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 82 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 56 | U |
| 74-83-9 | Bromomethane | 56 | U |
| 75-01-4 | Vinyl Chloride | 56 | U |
| 75-00-3 | Chloroethane | 56 | U |
| 75-09-2 | Methylene Chloride | 56 | U |
| 67-64-1 | Acetone | 220 | |
| 75-15-0 | Carbon Disulfide | 56 | U |
| 75-35-4 | 1,1-Dichloroethene | 56 | U |
| 75-34-3 | 1,1-Dichloroethane | 56 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 56 | U |
| 67-66-3 | Chloroform | 56 | U |
| 107-06-2 | 1,2-Dichloroethane | 56 | U |
| 78-93-3 | 2-Butanone | 56 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 56 | U |
| 56-23-5 | Carbon Tetrachloride | 56 | U |
| 75-27-4 | Bromodichloromethane | 56 | U |
| 78-87-5 | 1,2-Dichloropropane | 56 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 56 | U |
| 79-01-6 | Trichloroethene | 56 | U |
| 124-48-1 | Dibromochloromethane | 56 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 56 | U |
| 71-43-2 | Benzene | 56 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 56 | U |
| 75-25-2 | Bromoform | 56 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 56 | U |
| 591-78-6 | 2-Hexanone | 56 | U |
| 127-18-4 | Tetrachloroethene | 56 | U |
| 108-88-3 | Toluene | 39 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | U |
| 108-90-7 | Chlorobenzene | 56 | U |
| 100-41-4 | Ethylbenzene | 56 | U |
| 100-42-5 | Styrene | 56 | U |
| 1330-20-7 | Xylene (total) | 56 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD33-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J14.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 82 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD33-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V13.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 82 Date Analyzed: 06/01/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 56 | U |
| 74-83-9 | Bromomethane | 56 | U |
| 75-01-4 | Vinyl Chloride | 56 | U |
| 75-00-3 | Chloroethane | 56 | U |
| 75-09-2 | Methylene Chloride | 56 | U |
| 67-64-1 | Acetone | 230 | |
| 75-15-0 | Carbon Disulfide | 56 | U |
| 75-35-4 | 1,1-Dichloroethene | 56 | U |
| 75-34-3 | 1,1-Dichloroethane | 56 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 56 | U |
| 67-66-3 | Chloroform | 56 | U |
| 107-06-2 | 1,2-Dichloroethane | 56 | U |
| 78-93-3 | 2-Butanone | 74 | |
| 71-55-6 | 1,1,1-Trichloroethane | 56 | U |
| 56-23-5 | Carbon Tetrachloride | 56 | U |
| 75-27-4 | Bromodichloromethane | 56 | U |
| 78-87-5 | 1,2-Dichloropropane | 56 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 56 | U |
| 79-01-6 | Trichloroethene | 56 | U |
| 124-48-1 | Dibromochloromethane | 56 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 56 | U |
| 71-43-2 | Benzene | 56 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 56 | U |
| 75-25-2 | Bromoform | 56 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 56 | U |
| 591-78-6 | 2-Hexanone | 56 | U |
| 127-18-4 | Tetrachloroethene | 56 | U |
| 108-88-3 | Toluene | 44 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 56 | U |
| 108-90-7 | Chlorobenzene | 56 | U |
| 100-41-4 | Ethylbenzene | 56 | U |
| 100-42-5 | Styrene | 56 | U |
| 1330-20-7 | Xylene (total) | 56 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD33-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V13.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 82 Date Analyzed: 06/01/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD35-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J15.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 26 | U |
| 74-83-9 | Bromomethane | 26 | U |
| 75-01-4 | Vinyl Chloride | 26 | U |
| 75-00-3 | Chloroethane | 26 | U |
| 75-09-2 | Methylene Chloride | 26 | U |
| 67-64-1 | Acetone | 75 | |
| 75-15-0 | Carbon Disulfide | 26 | U |
| 75-35-4 | 1,1-Dichloroethene | 26 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 26 | U |
| 67-66-3 | Chloroform | 26 | U |
| 107-06-2 | 1,2-Dichloroethane | 26 | U |
| 78-93-3 | 2-Butanone | 26 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 26 | U |
| 56-23-5 | Carbon Tetrachloride | 26 | U |
| 75-27-4 | Bromodichloromethane | 26 | U |
| 78-87-5 | 1,2-Dichloropropane | 26 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 26 | U |
| 79-01-6 | Trichloroethene | 26 | U |
| 124-48-1 | Dibromochloromethane | 26 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 26 | U |
| 71-43-2 | Benzene | 26 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 26 | U |
| 75-25-2 | Bromoform | 26 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 26 | U |
| 591-78-6 | 2-Hexanone | 26 | U |
| 127-18-4 | Tetrachloroethene | 26 | U |
| 108-88-3 | Toluene | 26 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 26 | U |
| 108-90-7 | Chlorobenzene | 26 | U |
| 100-41-4 | Ethylbenzene | 26 | U |
| 100-42-5 | Styrene | 26 | U |
| 1330-20-7 | Xylene (total) | 26 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD35-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J15.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 05/31/96

GC Column: DB-624 ID: .53(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/kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 75-18-3 | DIMETHYL SULFIDE | 5.15 | 41 | JN |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD35-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531116.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 26 | U |
| 74-83-9 | Bromomethane | 26 | U |
| 75-01-4 | Vinyl Chloride | 26 | U |
| 75-00-3 | Chloroethane | 26 | U |
| 75-09-2 | Methylene Chloride | 26 | U |
| 67-64-1 | Acetone | 180 | |
| 75-15-0 | Carbon Disulfide | 26 | U |
| 75-35-4 | 1,1-Dichloroethene | 26 | U |
| 75-34-3 | 1,1-Dichloroethane | 26 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 26 | U |
| 67-66-3 | Chloroform | 26 | U |
| 107-06-2 | 1,2-Dichloroethane | 26 | U |
| 78-93-3 | 2-Butanone | 35 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26 | U |
| 56-23-5 | Carbon Tetrachloride | 26 | U |
| 75-27-4 | Bromodichloromethane | 26 | U |
| 78-87-5 | 1,2-Dichloropropane | 26 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 26 | U |
| 79-01-6 | Trichloroethene | 26 | U |
| 124-48-1 | Dibromochloromethane | 26 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 26 | U |
| 71-43-2 | Benzene | 26 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 26 | U |
| 75-25-2 | Bromoform | 26 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 26 | U |
| 591-78-6 | 2-Hexanone | 26 | U |
| 127-18-4 | Tetrachloroethene | 26 | U |
| 108-88-3 | Toluene | 26 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 26 | U |
| 108-90-7 | Chlorobenzene | 26 | U |
| 100-41-4 | Ethylbenzene | 26 | U |
| 100-42-5 | Styrene | 26 | U |
| 1330-20-7 | Xylene (total) | 26 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD35-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531116.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 61 Date Analyzed: 05/31/96

GC Column: DB-624 ID: .53(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/kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000075-18-3 | DIMETHYL SULFIDE | 5.15 | 58 | JN |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD19-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547914

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531115.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 37 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 16 | U |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD19-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547914

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531115.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 37 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD34-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547915

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531114.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | - | 16 | U |
| 74-83-9 | Bromomethane | | 16 | U |
| 75-01-4 | Vinyl Chloride | | 16 | U |
| 75-00-3 | Chloroethane | | 16 | U |
| 75-09-2 | Methylene Chloride | | 16 | U |
| 67-64-1 | Acetone | | 12 | J |
| 75-15-0 | Carbon Disulfide | | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 16 | U |
| 67-66-3 | Chloroform | | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | | 16 | U |
| 78-93-3 | 2-Butanone | | 16 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 16 | U |
| 56-23-5 | Carbon Tetrachloride | | 16 | U |
| 75-27-4 | Bromodichloromethane | | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 16 | U |
| 79-01-6 | Trichloroethene | | 16 | U |
| 124-48-1 | Dibromochloromethane | | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 16 | U |
| 71-43-2 | Benzene | | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 16 | U |
| 75-25-2 | Bromoform | | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 16 | U |
| 591-78-6 | 2-Hexanone | | 16 | U |
| 127-18-4 | Tetrachloroethene | | 16 | U |
| 108-88-3 | Toluene | | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 16 | U |
| 108-90-7 | Chlorobenzene | | 16 | U |
| 100-41-4 | Ethylbenzene | | 16 | U |
| 100-42-5 | Styrene | | 16 | U |
| 1330-20-7 | Xylene (total) | | 16 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD34-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547915

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531114.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD21-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J18.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 68 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 31 | U |
| 74-83-9 | Bromomethane | 31 | U |
| 75-01-4 | Vinyl Chloride | 31 | U |
| 75-00-3 | Chloroethane | 31 | U |
| 75-09-2 | Methylene Chloride | 31 | U |
| 67-64-1 | Acetone | 55 | |
| 75-15-0 | Carbon Disulfide | 31 | U |
| 75-35-4 | 1,1-Dichloroethene | 31 | U |
| 75-34-3 | 1,1-Dichloroethane | 31 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 31 | U |
| 67-66-3 | Chloroform | 31 | U |
| 107-06-2 | 1,2-Dichloroethane | 31 | U |
| 78-93-3 | 2-Butanone | 31 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 31 | U |
| 56-23-5 | Carbon Tetrachloride | 31 | U |
| 75-27-4 | Bromodichloromethane | 31 | U |
| 78-87-5 | 1,2-Dichloropropane | 31 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 31 | U |
| 79-01-6 | Trichloroethene | 31 | U |
| 124-48-1 | Dibromochloromethane | 31 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 31 | U |
| 71-43-2 | Benzene | 31 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 31 | U |
| 75-25-2 | Bromoform | 31 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 31 | U |
| 591-78-6 | 2-Hexanone | 31 | U |
| 127-18-4 | Tetrachloroethene | 31 | U |
| 108-88-3 | Toluene | 31 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 31 | U |
| 108-90-7 | Chlorobenzene | 31 | U |
| 100-41-4 | Ethylbenzene | 31 | U |
| 100-42-5 | Styrene | 31 | U |
| 1330-20-7 | Xylene (total) | 31 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD21-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J18.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 68 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD21-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531113.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 68 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 31 | U |
| 74-83-9 | Bromomethane | 31 | U |
| 75-01-4 | Vinyl Chloride | 31 | U |
| 75-00-3 | Chloroethane | 31 | U |
| 75-09-2 | Methylene Chloride | 31 | U |
| 67-64-1 | Acetone | 110 | |
| 75-15-0 | Carbon Disulfide | 31 | U |
| 75-35-4 | 1,1-Dichloroethene | 31 | U |
| 75-34-3 | 1,1-Dichloroethane | 31 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 31 | U |
| 67-66-3 | Chloroform | 31 | U |
| 107-06-2 | 1,2-Dichloroethane | 31 | U |
| 78-93-3 | 2-Butanone | 31 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 31 | U |
| 56-23-5 | Carbon Tetrachloride | 31 | U |
| 75-27-4 | Bromodichloromethane | 31 | U |
| 78-87-5 | 1,2-Dichloropropane | 31 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 31 | U |
| 79-01-6 | Trichloroethene | 31 | U |
| 124-48-1 | Dibromochloromethane | 31 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 31 | U |
| 71-43-2 | Benzene | 31 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 31 | U |
| 75-25-2 | Bromoform | 31 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 31 | U |
| 591-78-6 | 2-Hexanone | 31 | U |
| 127-18-4 | Tetrachloroethene | 31 | U |
| 108-88-3 | Toluene | 31 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 31 | U |
| 108-90-7 | Chlorobenzene | 31 | U |
| 100-41-4 | Ethylbenzene | 31 | U |
| 100-42-5 | Styrene | 31 | U |
| 1330-20-7 | Xylene (total) | 31 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD21-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531113.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 68 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD20-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531111.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 45 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 18 | U |
| 74-83-9 | Bromomethane | 18 | U |
| 75-01-4 | Vinyl Chloride | 18 | U |
| 75-00-3 | Chloroethane | 18 | U |
| 75-09-2 | Methylene Chloride | 18 | U |
| 67-64-1 | Acetone | 180 | |
| 75-15-0 | Carbon Disulfide | 18 | U |
| 75-35-4 | 1,1-Dichloroethene | 18 | U |
| 75-34-3 | 1,1-Dichloroethane | 18 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 18 | U |
| 67-66-3 | Chloroform | 18 | U |
| 107-06-2 | 1,2-Dichloroethane | 18 | U |
| 78-93-3 | 2-Butanone | 43 | |
| 71-55-6 | 1,1,1-Trichloroethane | 18 | U |
| 56-23-5 | Carbon Tetrachloride | 18 | U |
| 75-27-4 | Bromodichloromethane | 18 | U |
| 78-87-5 | 1,2-Dichloropropane | 18 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 18 | U |
| 79-01-6 | Trichloroethene | 18 | U |
| 124-48-1 | Dibromochloromethane | 18 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 18 | U |
| 71-43-2 | Benzene | 18 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 18 | U |
| 75-25-2 | Bromoform | 18 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 18 | U |
| 591-78-6 | 2-Hexanone | 18 | U |
| 127-18-4 | Tetrachloroethene | 18 | U |
| 108-88-3 | Toluene | 5 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18 | U |
| 108-90-7 | Chlorobenzene | 18 | U |
| 100-41-4 | Ethylbenzene | 18 | U |
| 100-42-5 | Styrene | 18 | U |
| 1330-20-7 | Xylene (total) | 18 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD20-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531111.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 45 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD20-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531112.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 45 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 18 | U |
| 74-83-9 | Bromomethane | 18 | U |
| 75-01-4 | Vinyl Chloride | 18 | U |
| 75-00-3 | Chloroethane | 18 | U |
| 75-09-2 | Methylene Chloride | 18 | U |
| 67-64-1 | Acetone | 71 | |
| 75-15-0 | Carbon Disulfide | 18 | U |
| 75-35-4 | 1,1-Dichloroethene | 18 | U |
| 75-34-3 | 1,1-Dichloroethane | 18 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 18 | U |
| 67-66-3 | Chloroform | 18 | U |
| 107-06-2 | 1,2-Dichloroethane | 18 | U |
| 78-93-3 | 2-Butanone | 19 | |
| 71-55-6 | 1,1,1-Trichloroethane | 18 | U |
| 56-23-5 | Carbon Tetrachloride | 18 | U |
| 75-27-4 | Bromodichloromethane | 18 | U |
| 78-87-5 | 1,2-Dichloropropane | 18 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 18 | U |
| 79-01-6 | Trichloroethene | 18 | U |
| 124-48-1 | Dibromochloromethane | 18 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 18 | U |
| 71-43-2 | Benzene | 18 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 18 | U |
| 75-25-2 | Bromoform | 18 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 18 | U |
| 591-78-6 | 2-Hexanone | 18 | U |
| 127-18-4 | Tetrachloroethene | 18 | U |
| 108-88-3 | Toluene | 18 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18 | U |
| 108-90-7 | Chlorobenzene | 18 | U |
| 100-41-4 | Ethylbenzene | 18 | U |
| 100-42-5 | Styrene | 18 | U |
| 1330-20-7 | Xylene (total) | 18 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD20-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531112.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 45 Date Analyzed: 05/31/96

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/kg

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD22-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547918

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531108.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 16 | U |
| 74-83-9 | Bromomethane | 16 | U |
| 75-01-4 | Vinyl Chloride | 16 | U |
| 75-00-3 | Chloroethane | 16 | U |
| 75-09-2 | Methylene Chloride | 16 | U |
| 67-64-1 | Acetone | 67 | |
| 75-15-0 | Carbon Disulfide | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | 16 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 16 | U |
| 67-66-3 | Chloroform | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | 16 | U |
| 78-93-3 | 2-Butanone | 14 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | U |
| 56-23-5 | Carbon Tetrachloride | 16 | U |
| 75-27-4 | Bromodichloromethane | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 16 | U |
| 79-01-6 | Trichloroethene | 16 | U |
| 124-48-1 | Dibromochloromethane | 16 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | U |
| 71-43-2 | Benzene | 16 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 16 | U |
| 75-25-2 | Bromoform | 16 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 16 | U |
| 591-78-6 | 2-Hexanone | 16 | U |
| 127-18-4 | Tetrachloroethene | 16 | U |
| 108-88-3 | Toluene | 16 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | U |
| 108-90-7 | Chlorobenzene | 16 | U |
| 100-41-4 | Ethylbenzene | 16 | U |
| 100-42-5 | Styrene | 16 | U |
| 1330-20-7 | Xylene (total) | 16 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD22-91

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547918

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531108.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 38 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD22-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531107.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 52 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 21 | U |
| 74-83-9 | Bromomethane | 21 | U |
| 75-01-4 | Vinyl Chloride | 21 | U |
| 75-00-3 | Chloroethane | 21 | U |
| 75-09-2 | Methylene Chloride | 21 | U |
| 67-64-1 | Acetone | 120 | |
| 75-15-0 | Carbon Disulfide | 21 | U |
| 75-35-4 | 1,1-Dichloroethene | 21 | U |
| 75-34-3 | 1,1-Dichloroethane | 21 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 21 | U |
| 67-66-3 | Chloroform | 21 | U |
| 107-06-2 | 1,2-Dichloroethane | 21 | U |
| 78-93-3 | 2-Butanone | 27 | |
| 71-55-6 | 1,1,1-Trichloroethane | 21 | U |
| 56-23-5 | Carbon Tetrachloride | 21 | U |
| 75-27-4 | Bromodichloromethane | 21 | U |
| 78-87-5 | 1,2-Dichloropropane | 21 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 21 | U |
| 79-01-6 | Trichloroethene | 21 | U |
| 124-48-1 | Dibromochloromethane | 21 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 21 | U |
| 71-43-2 | Benzene | 21 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 21 | U |
| 75-25-2 | Bromoform | 21 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 21 | U |
| 591-78-6 | 2-Hexanone | 21 | U |
| 127-18-4 | Tetrachloroethene | 21 | U |
| 108-88-3 | Toluene | 21 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21 | U |
| 108-90-7 | Chlorobenzene | 21 | U |
| 100-41-4 | Ethylbenzene | 21 | U |
| 100-42-5 | Styrene | 21 | U |
| 1330-20-7 | Xylene (total) | 21 | U |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD22-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531107.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 52 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD22-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531110.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 52 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 21 | U |
| 74-83-9 | Bromomethane | 21 | U |
| 75-01-4 | Vinyl Chloride | 21 | U |
| 75-00-3 | Chloroethane | 21 | U |
| 75-09-2 | Methylene Chloride | 21 | U |
| 67-64-1 | Acetone | 53 | |
| 75-15-0 | Carbon Disulfide | 21 | U |
| 75-35-4 | 1,1-Dichloroethene | 21 | U |
| 75-34-3 | 1,1-Dichloroethane | 21 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 21 | U |
| 67-66-3 | Chloroform | 21 | U |
| 107-06-2 | 1,2-Dichloroethane | 21 | U |
| 78-93-3 | 2-Butanone | 11 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 21 | U |
| 56-23-5 | Carbon Tetrachloride | 21 | U |
| 75-27-4 | Bromodichloromethane | 21 | U |
| 78-87-5 | 1,2-Dichloropropane | 21 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 21 | U |
| 79-01-6 | Trichloroethene | 21 | U |
| 124-48-1 | Dibromochloromethane | 21 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 21 | U |
| 71-43-2 | Benzene | 21 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 21 | U |
| 75-25-2 | Bromoform | 21 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 21 | U |
| 591-78-6 | 2-Hexanone | 21 | U |
| 127-18-4 | Tetrachloroethene | 21 | U |
| 108-88-3 | Toluene | 21 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 21 | U |
| 108-90-7 | Chlorobenzene | 21 | U |
| 100-41-4 | Ethylbenzene | 21 | U |
| 100-42-5 | Styrene | 21 | U |
| 1330-20-7 | Xylene (total) | 21 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD22-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531110.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 52 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD23-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531106.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 22 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 13 | U |
| 74-83-9 | Bromomethane | 13 | U |
| 75-01-4 | Vinyl Chloride | 13 | U |
| 75-00-3 | Chloroethane | 13 | U |
| 75-09-2 | Methylene Chloride | 13 | U |
| 67-64-1 | Acetone | 21 | |
| 75-15-0 | Carbon Disulfide | 13 | U |
| 75-35-4 | 1,1-Dichloroethene | 13 | U |
| 75-34-3 | 1,1-Dichloroethane | 13 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 13 | U |
| 67-66-3 | Chloroform | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 13 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 13 | U |
| 56-23-5 | Carbon Tetrachloride | 13 | U |
| 75-27-4 | Bromodichloromethane | 13 | U |
| 78-87-5 | 1,2-Dichloropropane | 13 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 13 | U |
| 79-01-6 | Trichloroethene | 13 | U |
| 124-48-1 | Dibromochloromethane | 13 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 13 | U |
| 71-43-2 | Benzene | 13 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 13 | U |
| 75-25-2 | Bromoform | 13 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 127-18-4 | Tetrachloroethene | 13 | U |
| 108-88-3 | Toluene | 13 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13 | U |
| 108-90-7 | Chlorobenzene | 13 | U |
| 100-41-4 | Ethylbenzene | 13 | U |
| 100-42-5 | Styrene | 13 | U |
| 1330-20-7 | Xylene (total) | 13 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD23-01

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531106.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 22 Date Analyzed: 05/31/96

GC Column: DB-624 ID: .53(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/kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 000115-10-6 | DIMETHYL ETHER | 2.60 | - 7 | JN |

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD23-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531109.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 22 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 13 | U |
| 74-83-9 | Bromomethane | 13 | U |
| 75-01-4 | Vinyl Chloride | 13 | U |
| 75-00-3 | Chloroethane | 13 | U |
| 75-09-2 | Methylene Chloride | 13 | U |
| 67-64-1 | Acetone | 16 | |
| 75-15-0 | Carbon Disulfide | 13 | U |
| 75-35-4 | 1,1-Dichloroethene | 13 | U |
| 75-34-3 | 1,1-Dichloroethane | 13 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 13 | U |
| 67-66-3 | Chloroform | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 13 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 13 | U |
| 56-23-5 | Carbon Tetrachloride | 13 | U |
| 75-27-4 | Bromodichloromethane | 13 | U |
| 78-87-5 | 1,2-Dichloropropane | 13 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 13 | U |
| 79-01-6 | Trichloroethene | 13 | U |
| 124-48-1 | Dibromochloromethane | 13 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 13 | U |
| 71-43-2 | Benzene | 13 | U |
| 10061-02-6 | Trans-1,3-Dichloropropene | 13 | U |
| 75-25-2 | Bromoform | 13 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 127-18-4 | Tetrachloroethene | 13 | U |
| 108-88-3 | Toluene | 13 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13 | U |
| 108-90-7 | Chlorobenzene | 13 | U |
| 100-41-4 | Ethylbenzene | 13 | U |
| 100-42-5 | Styrene | 13 | U |
| 1330-20-7 | Xylene (total) | 13 | U |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

APD-SD23-01RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920RE

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531109.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 22 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKJR

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0528J02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/28/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKJR

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0528J02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/28/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKJT

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/30/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKJT

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/30/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKJV

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J03.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKJV

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0530J03.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKJW

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531105.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKJW

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531105.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKKF

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKKF

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0531V02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 05/31/96

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/kg

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

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKKG

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0601K02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 06/01/96

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

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 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 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKKG

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

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

Sample wt/vol: 5 (g/mL) g Lab File ID: 0601K02.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. 0 Date Analyzed: 06/01/96

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/kg

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

FORM I VOA-TIC

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-01MS

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MS

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/30/96

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/kg | Q |
|---|---|---|---|---|
| 74-87-3 | Chloromethane | - | 14 | U |
| 74-83-9 | Bromomethane | | 14 | U |
| 75-01-4 | Vinyl Chloride | | 14 | U |
| 75-00-3 | Chloroethane | | 14 | U |
| 75-09-2 | Methylene Chloride | | 14 | U |
| 67-64-1 | Acetone | | 14 | U |
| 75-15-0 | Carbon Disulfide | | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | | 73 | |
| 75-34-3 | 1,1-Dichloroethane | | 14 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | | 14 | U |
| 67-66-3 | Chloroform | | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | | 14 | U |
| 78-93-3 | 2-Butanone | | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 14 | U |
| 56-23-5 | Carbon Tetrachloride | | 14 | U |
| 75-27-4 | Bromodichloromethane | | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 14 | U |
| 79-01-6 | Trichloroethene | | 45 | |
| 124-48-1 | Dibromochloromethane | | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 14 | U |
| 71-43-2 | Benzene | | 75 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | | 14 | U |
| 75-25-2 | Bromoform | | 14 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 14 | U |
| 591-78-6 | 2-Hexanone | | 14 | U |
| 127-18-4 | Tetrachloroethene | | 14 | U |
| 108-88-3 | Toluene | | 70 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 14 | U |
| 108-90-7 | Chlorobenzene | | 58 | |
| 100-41-4 | Ethylbenzene | | 14 | U |
| 100-42-5 | Styrene | | 14 | U |
| 1330-20-7 | Xylene (total) | | 14 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

APD-SD29-01MSD

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MSD

Sample wt/vol: 5 (g/mL) g Lab File ID: 0529J11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: not dec. 26 Date Analyzed: 05/30/96

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/kg | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 14 | U |
| 74-83-9 | Bromomethane | 14 | U |
| 75-01-4 | Vinyl Chloride | 14 | U |
| 75-00-3 | Chloroethane | 14 | U |
| 75-09-2 | Methylene Chloride | 14 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon Disulfide | 14 | U |
| 75-35-4 | 1,1-Dichloroethene | 59 | |
| 75-34-3 | 1,1-Dichloroethane | 14 | U |
| 540-59-0 | 1,2-Dichloroethene (total) | 14 | U |
| 67-66-3 | Chloroform | 14 | U |
| 107-06-2 | 1,2-Dichloroethane | 14 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | U |
| 56-23-5 | Carbon Tetrachloride | 14 | U |
| 75-27-4 | Bromodichloromethane | 14 | U |
| 78-87-5 | 1,2-Dichloropropane | 14 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 14 | U |
| 79-01-6 | Trichloroethene | 46 | |
| 124-48-1 | Dibromochloromethane | 14 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 14 | U |
| 71-43-2 | Benzene | 65 | |
| 10061-02-6 | Trans-1,3-Dichloropropene | 14 | U |
| 75-25-2 | Bromoform | 14 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 14 | U |
| 591-78-6 | 2-Hexanone | 14 | U |
| 127-18-4 | Tetrachloroethene | 14 | U |
| 108-88-3 | Toluene | 64 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 14 | U |
| 108-90-7 | Chlorobenzene | 62 | |
| 100-41-4 | Ethylbenzene | 14 | U |
| 100-42-5 | Styrene | 14 | U |
| 1330-20-7 | Xylene (total) | 14 | U |

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Level:(low/med) LOW

| | CLIENT SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VBLKJR | 102 | 96 | 92 | | 0 |
| 02 | APD-SD29-01 | 62* | 201* | 56* | | 3 |
| 03 | VBLKJT | 91 | 109 | 116 | | 0 |
| 04 | APD-SD29-01RE | 111 | 82 | 133* | | 1 |
| 05 | APD-SD29-01MS | 116 | 83 | 141* | | 1 |
| 06 | APD-SD29-01MSD | 100 | 97 | 113 | | 0 |
| 07 | APD-SD29-91 | 108 | 89 | 119 | | 0 |
| 08 | VBLKJV | 91 | 76 | 88 | | 0 |
| 09 | APD-SD29-91RE | 73* | 111 | 53* | | 2 |
| 10 | APD-SD18-91 | 107 | 77 | 102 | | 0 |
| 11 | APD-SD26-01 | 115 | 62 | 91 | | 0 |
| 12 | APD-SD33-01 | 111 | 45* | 74 | | 1 |
| 13 | APD-SD35-01 | 78* | 86 | 69* | | 2 |
| 14 | APD-SD21-01 | 47* | 195* | 30* | | 3 |
| 15 | VBLKJW | 86 | 88 | 102 | | 0 |
| 16 | APD-SD23-01 | 83* | 102 | 64* | | 2 |
| 17 | APD-SD22-01 | 76* | 114* | 71 | | 2 |
| 18 | APD-SD22-91 | 100 | 72 | 101 | | 0 |
| 19 | APD-SD23-01RE | 72* | 123* | 73 | | 2 |
| 20 | APD-SD22-01RE | 90 | 83 | 95 | | 0 |
| 21 | APD-SD20-01 | 106 | 72 | 78 | | 0 |
| 22 | APD-SD20-01RE | 117 | 63 | 101 | | 0 |
| 23 | APD-SD21-01RE | 82* | 101 | 87 | | 1 |
| 24 | APD-SD34-01 | 101 | 75 | 110 | | 0 |
| 25 | APD-SD19-01 | 87 | 84 | 100 | | 0 |
| 26 | APD-SD35-01RE | 102 | 66 | 104 | | 0 |
| 27 | VBLKKF | 100 | 94 | 90 | | 0 |
| 28 | APD-SD30-01 | 116 | 78 | 92 | | 0 |
| 29 | APD-SD18-01 | 106 | 86 | 92 | | 0 |
| 30 | APD-SD27-01 | 111 | 84 | 91 | | 0 |

| | | QC LIMITS |
|---|---|---|
| SMC1 (TOL) | = Toluene-d8 | (84-138) |
| SMC2 (BFB) | = Bromofluorobenzene | (59-113) |
| SMC3 (DCE) | = 1,2-Dichloroethane-d4 | (70-121) |

# Column to be used to flag recovery values

* Values outside of QC limits.

D System Monitoring Compound diluted out



FORM II VOA-2

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Level: (low/med) LOW

| | CLIENT SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | APD-SD28-01 | 108 | 85 | 91 | | 0 |
| 02 | APD-SD32-01 | 102 | 93 | 91 | | 0 |
| 03 | APD-SD17-01 | 131 | 70 | 90 | | 0 |
| 04 | APD-SD31-01 | 115 | 83 | 91 | | 0 |
| 05 | APD-SD33-01RE | 134 | 67 | 94 | | 0 |
| 06 | VBLKKG | 99 | 95 | 91 | | 0 |
| 07 | APD-SD17-01RE | 124 | 69 | 91 | | 0 |
| 08 | | | | | | |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

| | | QC LIMITS |
|---|---|---|
| SMC1 (TOL) | = Toluene-d8 | (84-138) |
| SMC2 (BFB) | = Bromofluorobenzene | (59-113) |
| SMC3 (DCE) | = 1,2-Dichloroethane-d4 | (70-121) |

# Column to be used to flag recovery values

* Values outside of QC limits.

D System Monitoring Compound diluted out



FORM II VOA-2

3B

# SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix Spike - Client Sample No.: APD-SD29-01 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 68 | 0 | 73 | 107 | 59-172 |
| Trichloroethene | 68 | 0 | 45 | 66 | 62-137 |
| Benzene | 68 | 0 | 75 | 110 | 66-142 |
| Toluene | 68 | 0 | 70 | 103 | 59-139 |
| Chlorobenzene | 68 | 0 | 58 | 85 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 68 | 59 | 87 | 21 | 22 | 59-172 |
| Trichloroethene | 68 | 46 | 68 | 3 | 24 | 62-137 |
| Benzene | 68 | 65 | 96 | 14 | 21 | 66-142 |
| Toluene | 68 | 64 | 94 | 9 | 21 | 59-139 |
| Chlorobenzene | 68 | 62 | 91 | 7 | 21 | 60-133 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits.

D Spike compound diluted out.

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

_____

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKJR

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0528J02.D Lab Sample ID: VBLKJR

Date Analyzed: 05/28/96 Time Analyzed: 21:32

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD29-01 | 960547901 | 0528J17.D | 07:08 |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:



FORM IV VOA

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKJT

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0529J02.D Lab Sample ID: VBLKJT

Date Analyzed: 05/30/96 Time Analyzed: 01:41

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD29-01RE | 960547901RE | 0529J09.D | 05:55 |
| 02 | APD-SD29-01MS | 960547901MS | 0529J10.D | 06:31 |
| 03 | APD-SD29-01MSD | 960547901MSD | 0529J11.D | 07:08 |
| 04 | APD-SD29-91 | 960547902 | 0529J12.D | 07:44 |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS: _____



FORM IV VOA

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKJV

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0530J03.D Lab Sample ID: VBLKJV

Date Analyzed: 05/31/96 Time Analyzed: 00:33

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD29-91RE | 960547902RE | 0530J04.D | 01:10 |
| 02 | APD-SD18-91 | 960547905 | 0530J07.D | 02:59 |
| 03 | APD-SD26-01 | 960547906 | 0530J08.D | 03:35 |
| 04 | APD-SD33-01 | 960547912 | 0530J14.D | 07:14 |
| 05 | APD-SD35-01 | 960547913 | 0530J15.D | 07:50 |
| 06 | APD-SD21-01 | 960547916 | 0530J18.D | 09:41 |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:



FORM IV VOA

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKJW

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0531105.D Lab Sample ID: VBLKJW

Date Analyzed: 05/31/96 Time Analyzed: 14:34

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD23-01 | 960547920 | 0531106.D | 15:12 |
| 02 | APD-SD22-01 | 960547919 | 0531107.D | 15:49 |
| 03 | APD-SD22-91 | 960547918 | 0531108.D | 16:25 |
| 04 | APD-SD23-01RE | 960547920RE | 0531109.D | 17:15 |
| 05 | APD-SD22-01RE | 960547919RE | 0531110.D | 17:52 |
| 06 | APD-SD20-01 | 960547917 | 0531111.D | 18:29 |
| 07 | APD-SD20-01RE | 960547917RE | 0531112.D | 19:06 |
| 08 | APD-SD21-01RE | 960547916RE | 0531113.D | 19:42 |
| 09 | APD-SD34-01 | 960547915 | 0531114.D | 20:19 |
| 10 | APD-SD19-01 | 960547914 | 0531115.D | 21:20 |
| 11 | APD-SD35-01RE | 960547913RE | 0531116.D | 21:57 |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS: _____



FORM IV VOA

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKKF

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0531V02.D Lab Sample ID: VBLKKF

Date Analyzed: 05/31/96 Time Analyzed: 17:51

GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD30-01 | 960547903 | 0531V06.D | 21:16 |
| 02 | APD-SD18-01 | 960547904 | 0531V07.D | 21:53 |
| 03 | APD-SD27-01 | 960547907 | 0531V08.D | 22:31 |
| 04 | APD-SD28-01 | 960547908 | 0531V09.D | 23:07 |
| 05 | APD-SD32-01 | 960547909 | 0531V10.D | 23:50 |
| 06 | APD-SD17-01 | 960547910 | 0531V11.D | 00:26 |
| 07 | APD-SD31-01 | 960547911 | 0531V12.D | 01:03 |
| 08 | APD-SD33-01RE | 960547912RE | 0531V13.D | 01:40 |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS: _____



FORM IV VOA

4A
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKKG

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0601K02.D Lab Sample ID: VBLKKG

Date Analyzed: 06/01/96 Time Analyzed: 09:47

GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: MSD11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | APD-SD17-01RE | 960547910RE | 0601K03.D | 10:31 |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:



FORM IV VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0528J01.D Date Analyzed: 05/28/96

Instrument ID: MSD10 Time Analyzed: 20:31

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 389350 | 9.15 | 1872295 | 11.39 | 1667423 | 17.75 |
| | UPPER LIMIT | 778700 | 9.65 | 3744590 | 11.89 | 3334846 | 18.25 |
| | LOWER LIMIT | 194675 | 8.65 | 936148 | 10.89 | 833712 | 17.25 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKJR | 386503 | 9.14 | 1849184 | 11.37 | 1637128 | 17.75 |
| 02 | APD-SD29-01 | 84994* | 9.14 | 104032* | 11.38 | 227651* | 17.75 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0529J01.D Date Analyzed: 05/29/96

Instrument ID: MSD10 Time Analyzed: 23:31

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1265504 | 9.15 | 4533564 | 11.39 | 3950975 | 17.76 |
| | UPPER LIMIT | 2531008 | 9.65 | 9067128 | 11.89 | 7901950 | 18.26 |
| | LOWER LIMIT | 632752 | 8.65 | 2266782 | 10.89 | 1975488 | 17.26 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKJT | 857669 | 9.16 | 3646274 | 11.39 | 3189834 | 17.76 |
| 02 | APD-SD29-01RE | 590155* | 9.18 | 2329424 | 11.42 | 1737750* | 17.79 |
| 03 | APD-SD29-01MS | 640180 | 9.16 | 2316840 | 11.40 | 1524067* | 17.77 |
| 04 | APD-SD29-01MSD | 389786* | 9.20 | 1281760* | 11.43 | 1158642* | 17.79 |
| 05 | APD-SD29-91 | 403626* | 9.18 | 1529037* | 11.40 | 1103827* | 17.77 |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0530J01.D Date Analyzed: 05/30/96

Instrument ID: MSD10 Time Analyzed: 22:42

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 1002767 | 9.18 | 4276476 | 11.41 | 4211523 | 17.77 |
| | UPPER LIMIT | 2005534 | 9.68 | 8552952 | 11.91 | 8423046 | 18.27 |
| | LOWER LIMIT | 501384 | 8.68 | 2138238 | 10.91 | 2105762 | 17.27 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | APD-SD29-91RE | 323112* | 9.21 | 672664* | 11.44 | 869707* | 17.81 |
| 02 | APD-SD18-91 | 992317 | 9.20 | 4045908 | 11.44 | 3161485 | 17.81 |
| 03 | APD-SD26-01 | 938538 | 9.21 | 3364942 | 11.45 | 2174860 | 17.83 |
| 04 | APD-SD33-01 | 213607* | 9.24 | 574370* | 11.46 | 392385* | 17.84 |
| 05 | APD-SD35-01 | 405685* | 9.21 | 1169337* | 11.45 | 833387* | 17.81 |
| 06 | APD-SD21-01 | 180795* | 9.19 | 125613* | 11.41 | 286630* | 17.79 |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0531103.D Date Analyzed: 05/31/96

Instrument ID: MSD10 Time Analyzed: 12:34

GC Column: DB-624 ID: .53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 952545 | 9.13 | 4309299 | 11.37 | 3199459 | 17.76 |
| | UPPER LIMIT | 1905090 | 9.63 | 8618598 | 11.87 | 6398918 | 18.26 |
| | LOWER LIMIT | 476272 | 8.63 | 2154650 | 10.87 | 1599730 | 17.26 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKJW | 978382 | 9.16 | 4721473 | 11.38 | 3344821 | 17.76 |
| 02 | APD-SD23-01 | 412318* | 9.19 | 1237968* | 11.43 | 1252904* | 17.79 |
| 03 | APD-SD22-01 | 166362* | 9.16 | 485101* | 11.40 | 710468* | 17.79 |
| 04 | APD-SD22-91 | 585279 | 9.18 | 2476362 | 11.42 | 1805491 | 17.78 |
| 05 | APD-SD23-01RE | 506133 | 9.19 | 1199275* | 11.41 | 1577499* | 17.78 |
| 06 | APD-SD22-01RE | 524155 | 9.19 | 1811346* | 11.42 | 1364144* | 17.79 |
| 07 | APD-SD20-01 | 255520* | 9.17 | 502873* | 11.42 | 432157* | 17.79 |
| 08 | APD-SD20-01RE | 513795 | 9.18 | 2027409* | 11.41 | 1289189* | 17.77 |
| 09 | APD-SD21-01RE | 426686* | 9.17 | 1447307* | 11.42 | 1297532* | 17.79 |
| 10 | APD-SD34-01 | 598562 | 9.17 | 2503229 | 11.42 | 1841300 | 17.78 |
| 11 | APD-SD19-01 | 657932 | 9.18 | 3590447 | 11.42 | 2779262 | 17.79 |
| 12 | APD-SD35-01RE | 421888* | 9.19 | 1954555* | 11.43 | 1436919* | 17.80 |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0531V01.D Date Analyzed: 05/31/96

Instrument ID: MSD11 Time Analyzed: 16:56

GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 617053 | 7.50 | 3411704 | 9.71 | 2806425 | 15.99 |
| | UPPER LIMIT | 1234106 | 8.00 | 6823408 | 10.21 | 5612850 | 16.49 |
| | LOWER LIMIT | 308526 | 7.00 | 1705852 | 9.21 | 1403212 | 15.49 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKKF | 640215 | 7.51 | 3489072 | 9.71 | 2830564 | 15.97 |
| 02 | APD-SD30-01 | 496790 | 7.50 | 2324683 | 9.71 | 1511497 | 16.00 |
| 03 | APD-SD18-01 | 614876 | 7.52 | 3121489 | 9.71 | 2338104 | 15.99 |
| 04 | APD-SD27-01 | 521578 | 7.44 | 2521975 | 9.65 | 1758876 | 15.94 |
| 05 | APD-SD28-01 | 565896 | 7.49 | 2788337 | 9.69 | 1990499 | 15.98 |
| 06 | APD-SD32-01 | 677533 | 7.45 | 3443564 | 9.66 | 2702516 | 15.94 |
| 07 | APD-SD17-01 | 458329 | 7.49 | 1823687 | 9.70 | 968792* | 15.99 |
| 08 | APD-SD31-01 | 496802 | 7.46 | 2347521 | 9.67 | 1596391 | 15.95 |
| 09 | APD-SD33-01RE | 443780 | 7.48 | 1856110 | 9.69 | 913405* | 15.99 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0601K01.D Date Analyzed: 06/01/96

Instrument ID: MSD11 Time Analyzed: 09:04

GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) Y

| | | IS1(BCM) AREA # | RT # | IS2(DFB) AREA # | RT # | IS3(CBZ) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 593689 | 7.48 | 3269320 | 9.70 | 2665241 | 15.98 |
| | UPPER LIMIT | 1187378 | 7.98 | 6538640 | 10.20 | 5330482 | 16.48 |
| | LOWER LIMIT | 296844 | 6.98 | 1634660 | 9.20 | 1332620 | 15.48 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKKG | 626115 | 7.44 | 3438039 | 9.65 | 2775796 | 15.93 |
| 02 | APD-SD17-01RE | 403654 | 7.45 | 1973157 | 9.67 | 1147760* | 15.96 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



FORM VIII VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD17

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 850 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 850 | U |
| 95-57-8 | 2-Chlorophenol | 850 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 850 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 850 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 850 | U |
| 95-48-7 | 2-Methylphenol | 850 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 850 | U |
| 106-44-5 | 4-Methylphenol | 850 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 850 | U |
| 67-72-1 | Hexachloroethane | 850 | U |
| 98-95-3 | Nitrobenzene | 850 | U |
| 78-59-1 | Isophorone | 850 | U |
| 88-75-5 | 2-Nitrophenol | 850 | U |
| 105-67-9 | 2,4-Dimethylphenol | 850 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 850 | U |
| 120-83-2 | 2,4-Dichlorophenol | 850 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 850 | U |
| 91-20-3 | Naphthalene | 850 | U |
| 106-47-8 | 4-Chloroaniline | 850 | U |
| 87-68-3 | Hexachlorobutadiene | 850 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 850 | U |
| 91-57-6 | 2-Methylnaphthalene | 850 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 850 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 850 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 850 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 850 | U |
| 208-96-8 | Acenaphthylene | 850 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 850 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 850 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD17

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 850 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 850 | U |
| 84-66-2 | Diethylphthalate | 850 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 850 | U |
| 86-73-7 | Fluorene | 850 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 850 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 850 | U |
| 118-74-1 | Hexachlorobenzene | 850 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 110 | J |
| 120-12-7 | Anthracene | 850 | U |
| 86-74-8 | Carbazole | 850 | U |
| 84-74-2 | Di-n-butylphthalate | 850 | U |
| 206-44-0 | Fluoranthene | 380 | J |
| 129-00-0 | Pyrene | 310 | J |
| 85-68-7 | Butylbenzylphthalate | 850 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 850 | U |
| 56-55-3 | Benzo(a)anthracene | 210 | J |
| 218-01-9 | Chrysene | 260 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 190 | J |
| 117-84-0 | Di-n-octylphthalate | 850 | U |
| 205-99-2 | Benzo(b)fluoranthene | 310 | J |
| 207-08-9 | Benzo(k)fluoranthene | 240 | J |
| 50-32-8 | Benzo(a)pyrene | 210 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 130 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 850 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 850 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD17

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547910

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H12.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.380 | 2900 | JB |
| 2. | 57103 | Hexadecanoic acid | 22.190 | 920 | NJX |
| 3. | | Unknown alkane | 27.070 | 1100 | J |
| 4. | | Unknown alkane | 28.660 | 1800 | J |
| 5. | | Unknown | 29.780 | 1100 | JB |
| 6. | | Unknown alkane | 30.260 | 3000 | J |
| 7. | | Unknown aldehyde | 31.700 | 640 | J |
| 8. | | Unknown alkane | 32.260 | 1300 | J |
| 9. | | Unknown | 32.830 | 930 | JB |
| 10. | | Unknown | 34.340 | 740 | JB |
| 11. | | Unknown | 35.060 | 1800 | JB |
| 12. | | Unknown | 35.410 | 780 | JB |
| 13. | 83476 | .gama.-Sitosterol | 36.720 | 4200 | NJ |
| 14. | | Unknown | 37.100 | 1500 | JB |
| 15. | | Unknown | 37.720 | 2400 | JB |
| 16. | | Unknown | 38.060 | 3300 | JB |
| 17. | | Unknown | 38.600 | 870 | JB |
| 18. | | Unknown | 39.170 | 2000 | JB |
| 19. | | Unknown | 39.310 | 1600 | JB |
| 20. | 1058613 | Stigmast-4-en-3-one | 39.620 | 7000 | NJ |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD18

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547904

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607802.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 510 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 510 | U |
| 95-57-8 | 2-Chlorophenol | 510 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 510 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 510 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 510 | U |
| 95-48-7 | 2-Methylphenol | 510 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 510 | U |
| 106-44-5 | 4-Methylphenol | 510 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 510 | U |
| 67-72-1 | Hexachloroethane | 510 | U |
| 98-95-3 | Nitrobenzene | 510 | U |
| 78-59-1 | Isophorone | 510 | U |
| 88-75-5 | 2-Nitrophenol | 510 | U |
| 105-67-9 | 2,4-Dimethylphenol | 510 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 510 | U |
| 120-83-2 | 2,4-Dichlorophenol | 510 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 510 | U |
| 91-20-3 | Naphthalene | 510 | U |
| 106-47-8 | 4-Chloroaniline | 510 | U |
| 87-68-3 | Hexachlorobutadiene | 510 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 510 | U |
| 91-57-6 | 2-Methylnaphthalene | 510 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 510 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 510 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 91-58-7 | 2-Chloronaphthalene | 510 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 510 | U |
| 208-96-8 | Acenaphthylene | 510 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 510 | U |
| 99-09-2 | 3-Nitroaniline | 1200 | U |
| 83-32-9 | Acenaphthene | 510 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD18

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547904

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607802.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U |
| 100-02-7 | 4-Nitrophenol | 1200 | U |
| 132-64-9 | Dibenzofuran | 510 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 510 | U |
| 84-66-2 | Diethylphthalate | 510 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 510 | U |
| 86-73-7 | Fluorene | 510 | U |
| 100-01-6 | 4-Nitroaniline | 1200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 510 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 510 | U |
| 118-74-1 | Hexachlorobenzene | 510 | U |
| 87-86-5 | Pentachlorophenol | 1200 | U |
| 85-01-8 | Phenanthrene | 510 | U |
| 120-12-7 | Anthracene | 510 | U |
| 86-74-8 | Carbazole | 510 | U |
| 84-74-2 | Di-n-butylphthalate | 510 | U |
| 206-44-0 | Fluoranthene | 510 | U |
| 129-00-0 | Pyrene | 510 | U |
| 85-68-7 | Butylbenzylphthalate | 510 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 510 | U |
| 56-55-3 | Benzo(a)anthracene | 510 | U |
| 218-01-9 | Chrysene | 510 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 510 | U |
| 117-84-0 | Di-n-octylphthalate | 510 | U |
| 205-99-2 | Benzo(b)fluoranthene | 510 | U |
| 207-08-9 | Benzo(k)fluoranthene | 510 | U |
| 50-32-8 | Benzo(a)pyrene | 510 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 510 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 510 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 510 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD18

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547904

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607802.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 36 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.270 | 2000 | J |
| 2. | | Unknown | 16.900 | 230 | J |
| 3. | 134623 | Diethyltoluamide | 17.850 | 250 | NJ |
| 4. | | Unknown | 20.800 | 180 | J |
| 5. | 57103 | Hexadecanoic acid | 21.990 | 160 | NJX |
| 6. | | Unknown | 26.880 | 150 | J |
| 7. | | Unknown | 29.210 | 160 | J |
| 8. | | Unknown | 29.550 | 200 | J |
| 9. | | Unknown | 30.250 | 270 | J |
| 10. | | Unknown | 31.380 | 180 | J |
| 11. | | Unknown | 32.440 | 210 | J |
| 12. | 14021239 | D-Friedoolean-14-ene, 3-meth | 34.930 | 3700 | NJ |
| 13. | | Unknown | 35.300 | 750 | J |
| 14. | | Unknown | 35.730 | 220 | J |
| 15. | | Unknown | 36.190 | 590 | J |
| 16. | | Unknown | 36.990 | 140 | J |
| 17. | | Unknown | 37.220 | 250 | J |
| 18. | | Unknown | 38.090 | 270 | J |
| 19. | | Unknown | 38.380 | 250 | J |
| 20. | 1058613 | Stigmast-4-en-3-one | 38.700 | 190 | NJ |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD1891

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547905

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607814.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 530 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 530 | U |
| 95-57-8 | 2-Chlorophenol | 530 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 530 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 530 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 530 | U |
| 95-48-7 | 2-Methylphenol | 530 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 530 | U |
| 106-44-5 | 4-Methylphenol | 530 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 530 | U |
| 67-72-1 | Hexachloroethane | 530 | U |
| 98-95-3 | Nitrobenzene | 530 | U |
| 78-59-1 | Isophorone | 530 | U |
| 88-75-5 | 2-Nitrophenol | 530 | U |
| 105-67-9 | 2,4-Dimethylphenol | 530 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 530 | U |
| 120-83-2 | 2,4-Dichlorophenol | 530 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 530 | U |
| 91-20-3 | Naphthalene | 530 | U |
| 106-47-8 | 4-Chloroaniline | 530 | U |
| 87-68-3 | Hexachlorobutadiene | 530 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 530 | U |
| 91-57-6 | 2-Methylnaphthalene | 530 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 530 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 530 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 530 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 530 | U |
| 208-96-8 | Acenaphthylene | 530 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 530 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 530 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD1891

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547905

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607814.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 530 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 530 | U |
| 84-66-2 | Diethylphthalate | 530 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 530 | U |
| 86-73-7 | Fluorene | 530 | U |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 530 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 530 | U |
| 118-74-1 | Hexachlorobenzene | 530 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 530 | U |
| 120-12-7 | Anthracene | 530 | U |
| 86-74-8 | Carbazole | 530 | U |
| 84-74-2 | Di-n-butylphthalate | 530 | U |
| 206-44-0 | Fluoranthene | 530 | U |
| 129-00-0 | Pyrene | 530 | U |
| 85-68-7 | Butylbenzylphthalate | 530 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 530 | U |
| 56-55-3 | Benzo(a)anthracene | 530 | U |
| 218-01-9 | Chrysene | 530 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 530 | U |
| 117-84-0 | Di-n-octylphthalate | 530 | U |
| 205-99-2 | Benzo(b)fluoranthene | 530 | U |
| 207-08-9 | Benzo(k)fluoranthene | 530 | U |
| 50-32-8 | Benzo(a)pyrene | 530 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 530 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 530 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 530 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD1891

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547905

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607814.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2

Number TICs found: 15

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.280 | 2000 | J |
| 2. | Unknown | 24.200 | 140 | J |
| 3. | Unknown | 26.380 | 160 | J |
| 4. | Unknown alkane | 26.900 | 170 | J |
| 5. | Unknown | 28.580 | 200 | J |
| 6. | Unknown | 29.240 | 210 | J |
| 7. | Unknown | 30.270 | 500 | J |
| 8. | Unknown | 31.410 | 220 | J |
| 9. | Unknown | 32.470 | 350 | J |
| 10. | Unknown | 35.000 | 5000 | J |
| 11. | Unknown | 35.360 | 290 | J |
| 12. | Unknown | 35.770 | 210 | J |
| 13. | Unknown | 36.250 | 800 | J |
| 14. | Unknown | 38.150 | 350 | J |
| 15. | Unknown | 38.460 | 260 | J |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD19

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 520 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 520 | U |
| 95-57-8 | 2-Chlorophenol | 520 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 520 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 520 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 520 | U |
| 95-48-7 | 2-Methylphenol | 520 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 520 | U |
| 106-44-5 | 4-Methylphenol | 520 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 520 | U |
| 67-72-1 | Hexachloroethane | 520 | U |
| 98-95-3 | Nitrobenzene | 520 | U |
| 78-59-1 | Isophorone | 520 | U |
| 88-75-5 | 2-Nitrophenol | 520 | U |
| 105-67-9 | 2,4-Dimethylphenol | 520 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 520 | U |
| 120-83-2 | 2,4-Dichlorophenol | 520 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 520 | U |
| 91-20-3 | Naphthalene | 520 | U |
| 106-47-8 | 4-Chloroaniline | 520 | U |
| 87-68-3 | Hexachlorobutadiene | 520 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 520 | U |
| 91-57-6 | 2-Methylnaphthalene | 520 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 520 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 520 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 520 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 520 | U |
| 208-96-8 | Acenaphthylene | 520 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 520 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 520 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD19

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 520 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 520 | U |
| 84-66-2 | Diethylphthalate | 520 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 520 | U |
| 86-73-7 | Fluorene | 520 | U |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 520 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 520 | U |
| 118-74-1 | Hexachlorobenzene | 520 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 520 | U |
| 120-12-7 | Anthracene | 520 | U |
| 86-74-8 | Carbazole | 520 | U |
| 84-74-2 | Di-n-butylphthalate | 520 | U |
| 206-44-0 | Fluoranthene | 520 | U |
| 129-00-0 | Pyrene | 520 | U |
| 85-68-7 | Butylbenzylphthalate | 520 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 520 | U |
| 56-55-3 | Benzo(a)anthracene | 520 | U |
| 218-01-9 | Chrysene | 520 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 520 | U |
| 117-84-0 | Di-n-octylphthalate | 520 | U |
| 205-99-2 | Benzo(b)fluoranthene | 520 | U |
| 207-08-9 | Benzo(k)fluoranthene | 520 | U |
| 50-32-8 | Benzo(a)pyrene | 520 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 520 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 520 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 520 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD19

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 37 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 9

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.400 | 2500 | J |
| 2. | 134623 | Diethyltoluamide | 18.010 | 150 | NJ |
| 3. | | Unknown aldehyde | 26.550 | 320 | J |
| 4. | | Unknown | 26.640 | 690 | J |
| 5. | | Unknown | 27.070 | 220 | J |
| 6. | | Unknown | 28.710 | 230 | J |
| 7. | | Unknown | 32.810 | 110 | J |
| 8. | | Unknown | 37.600 | 110 | J |
| 9. | | Unknown | 39.380 | 160 | J |
| 10. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD20

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0607803.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 1500 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 1500 | U |
| 95-57-8 | 2-Chlorophenol | 1500 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1500 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1500 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1500 | U |
| 95-48-7 | 2-Methylphenol | 1500 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1500 | U |
| 106-44-5 | 4-Methylphenol | 1500 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1500 | U |
| 67-72-1 | Hexachloroethane | 1500 | U |
| 98-95-3 | Nitrobenzene | 1500 | U |
| 78-59-1 | Isophorone | 1500 | U |
| 88-75-5 | 2-Nitrophenol | 1500 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1500 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1500 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1500 | U |
| 91-20-3 | Naphthalene | 1500 | U |
| 106-47-8 | 4-Chloroaniline | 1500 | U |
| 87-68-3 | Hexachlorobutadiene | 1500 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | U |
| 91-57-6 | 2-Methylnaphthalene | 1500 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 1500 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1500 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 3600 | U |
| 91-58-7 | 2-Chloronaphthalene | 1500 | U |
| 88-74-4 | 2-Nitroaniline | 3600 | U |
| 131-11-3 | Dimethylphthalate | 1500 | U |
| 208-96-8 | Acenaphthylene | 1500 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1500 | U |
| 99-09-2 | 3-Nitroaniline | 3600 | U |
| 83-32-9 | Acenaphthene | 1500 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD20

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0607803.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 3600 | U |
| 100-02-7 | 4-Nitrophenol | 3600 | U |
| 132-64-9 | Dibenzofuran | 1500 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1500 | U |
| 84-66-2 | Diethylphthalate | 1500 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | U |
| 86-73-7 | Fluorene | 1500 | U |
| 100-01-6 | 4-Nitroaniline | 3600 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3600 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1500 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1500 | U |
| 118-74-1 | Hexachlorobenzene | 1500 | U |
| 87-86-5 | Pentachlorophenol | 3600 | U |
| 85-01-8 | Phenanthrene | 1500 | U |
| 120-12-7 | Anthracene | 1500 | U |
| 86-74-8 | Carbazole | 1500 | U |
| 84-74-2 | Di-n-butylphthalate | 1500 | U |
| 206-44-0 | Fluoranthene | 1500 | U |
| 129-00-0 | Pyrene | 1500 | U |
| 85-68-7 | Butylbenzylphthalate | 1500 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1500 | U |
| 56-55-3 | Benzo(a)anthracene | 1500 | U |
| 218-01-9 | Chrysene | 1500 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1500 | U |
| 117-84-0 | Di-n-octylphthalate | 1500 | U |
| 205-99-2 | Benzo(b)fluoranthene | 1500 | U |
| 207-08-9 | Benzo(k)fluoranthene | 1500 | U |
| 50-32-8 | Benzo(a)pyrene | 1500 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1500 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 1500 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 1500 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD20

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0607803.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Number TICs found: 10

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.230 | 1100 | J |
| 2. | Unknown alkane | 26.040 | 470 | J |
| 3. | Unknown | 29.550 | 420 | J |
| 4. | Unknown alkane | 30.000 | 410 | J |
| 5. | Unknown | 31.380 | 310 | J |
| 6. | Unknown alkane | 31.920 | 430 | J |
| 7. | Unknown | 32.440 | 320 | J |
| 8. 514078 | D-Friedoolean-14-en-3-one | 36.100 | 410 | NJ |
| 9. | Unknown | 36.580 | 490 | J |
| 10. 1058613 | Stigmast-4-en-3-one | 38.690 | 650 | NJ |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD20RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0618806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 06/16/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/19/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 1500 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 1500 | U |
| 95-57-8 | 2-Chlorophenol | 1500 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1500 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1500 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1500 | U |
| 95-48-7 | 2-Methylphenol | 1500 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1500 | U |
| 106-44-5 | 4-Methylphenol | 1500 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1500 | U |
| 67-72-1 | Hexachloroethane | 1500 | U |
| 98-95-3 | Nitrobenzene | 1500 | U |
| 78-59-1 | Isophorone | 1500 | U |
| 88-75-5 | 2-Nitrophenol | 1500 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1500 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1500 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1500 | U |
| 91-20-3 | Naphthalene | 1500 | U |
| 106-47-8 | 4-Chloroaniline | 1500 | U |
| 87-68-3 | Hexachlorobutadiene | 1500 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1500 | U |
| 91-57-6 | 2-Methylnaphthalene | 1500 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 1500 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1500 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 3600 | U |
| 91-58-7 | 2-Chloronaphthalene | 1500 | U |
| 88-74-4 | 2-Nitroaniline | 3600 | U |
| 131-11-3 | Dimethylphthalate | 1500 | U |
| 208-96-8 | Acenaphthylene | 1500 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1500 | U |
| 99-09-2 | 3-Nitroaniline | 3600 | U |
| 83-32-9 | Acenaphthene | 1500 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD20RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0618806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 06/16/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/19/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 3600 | U |
| 100-02-7 | 4-Nitrophenol | 3600 | U |
| 132-64-9 | Dibenzofuran | 1500 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1500 | U |
| 84-66-2 | Diethylphthalate | 1500 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | U |
| 86-73-7 | Fluorene | 1500 | U |
| 100-01-6 | 4-Nitroaniline | 3600 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 3600 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1500 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1500 | U |
| 118-74-1 | Hexachlorobenzene | 1500 | U |
| 87-86-5 | Pentachlorophenol | 3600 | U |
| 85-01-8 | Phenanthrene | 1500 | U |
| 120-12-7 | Anthracene | 1500 | U |
| 86-74-8 | Carbazole | 1500 | U |
| 84-74-2 | Di-n-butylphthalate | 320 | J |
| 206-44-0 | Fluoranthene | 680 | J |
| 129-00-0 | Pyrene | 590 | J |
| 85-68-7 | Butylbenzylphthalate | 1500 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1500 | U |
| 56-55-3 | Benzo(a)anthracene | 310 | J |
| 218-01-9 | Chrysene | 470 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1500 | U |
| 117-84-0 | Di-n-octylphthalate | 1500 | U |
| 205-99-2 | Benzo(b)fluoranthene | 500 | J |
| 207-08-9 | Benzo(k)fluoranthene | 440 | J |
| 50-32-8 | Benzo(a)pyrene | 460 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 240 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 1500 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 200 | J |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD20RE

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547917RE

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0618806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 78 decanted: (Y/N) N Date Extracted: 06/16/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/19/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.140 | 6800 | J |
| 2. 57103 | Hexadecanoic acid | 21.900 | 1600 | NJX |
| 3. | Unknown alkane | 28.350 | 1100 | J |
| 4. | Unknown | 28.900 | 1000 | J |
| 5. | Unknown alkane | 29.100 | 920 | J |
| 6. | Unknown | 29.440 | 1500 | J |
| 7. | Unknown alkane | 29.880 | 1900 | J |
| 8. | Unknown PAH | 30.290 | 900 | J |
| 9. | Unknown | 31.110 | 960 | J |
| 10. | Unknown aldehyde | 31.240 | 1800 | J |
| 11. | Unknown alkane | 31.750 | 1600 | J |
| 12. | Unknown | 32.260 | 1800 | J |
| 13. | Unknown | 32.600 | 1200 | J |
| 14. | Unknown alkane | 34.310 | 850 | J |
| 15. | Unknown | 34.830 | 1400 | J |
| 16. 83476 | .gamma.-Sitosterol | 35.740 | 3100 | NJ |
| 17. | Unknown | 36.300 | 900 | J |
| 18. | Unknown | 36.700 | 2200 | J |
| 19. | Unknown | 37.500 | 1300 | J |
| 20. 1058-61-3 | Stigmast-4-en-3-one | 38.380 | 2600 | NJ |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD21

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607804.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 68 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 1000 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 1000 | U |
| 95-57-8 | 2-Chlorophenol | 1000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1000 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1000 | U |
| 95-48-7 | 2-Methylphenol | 1000 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1000 | U |
| 106-44-5 | 4-Methylphenol | 1000 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1000 | U |
| 67-72-1 | Hexachloroethane | 1000 | U |
| 98-95-3 | Nitrobenzene | 1000 | U |
| 78-59-1 | Isophorone | 1000 | U |
| 88-75-5 | 2-Nitrophenol | 1000 | U |
| 105-67-9 | 2,4-Dimethylphenol | 1000 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1000 | U |
| 120-83-2 | 2,4-Dichlorophenol | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |
| 91-20-3 | Naphthalene | 1000 | U |
| 106-47-8 | 4-Chloroaniline | 1000 | U |
| 87-68-3 | Hexachlorobutadiene | 1000 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 1000 | U |
| 91-57-6 | 2-Methylnaphthalene | 1000 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 1000 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 1000 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2500 | U |
| 91-58-7 | 2-Chloronaphthalene | 1000 | U |
| 88-74-4 | 2-Nitroaniline | 2500 | U |
| 131-11-3 | Dimethylphthalate | 1000 | U |
| 208-96-8 | Acenaphthylene | 1000 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 1000 | U |
| 99-09-2 | 3-Nitroaniline | 2500 | U |
| 83-32-9 | Acenaphthene | 1000 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD21

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547916

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607804.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 68 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 2500 | U |
| 100-02-7 | 4-Nitrophenol | 2500 | U |
| 132-64-9 | Dibenzofuran | 1000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1000 | U |
| 84-66-2 | Diethylphthalate | 1000 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1000 | U |
| 86-73-7 | Fluorene | 1000 | U |
| 100-01-6 | 4-Nitroaniline | 2500 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2500 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 1000 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 1000 | U |
| 118-74-1 | Hexachlorobenzene | 1000 | U |
| 87-86-5 | Pentachlorophenol | 2500 | U |
| 85-01-8 | Phenanthrene | 1000 | U |
| 120-12-7 | Anthracene | 1000 | U |
| 86-74-8 | Carbazole | 1000 | U |
| 84-74-2 | Di-n-butylphthalate | 1000 | J |
| 206-44-0 | Fluoranthene | 220 | J |
| 129-00-0 | Pyrene | 230 | J |
| 85-68-7 | Butylbenzylphthalate | 1000 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1000 | U |
| 56-55-3 | Benzo(a)anthracene | 140 | J |
| 218-01-9 | Chrysene | 230 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 560 | J |
| 117-84-0 | Di-n-octylphthalate | 1000 | U |
| 205-99-2 | Benzo(b)fluoranthene | 350 | J |
| 207-08-9 | Benzo(k)fluoranthene | 270 | J |
| 50-32-8 | Benzo(a)pyrene | 220 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 190 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 1000 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 120 | J |

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD22

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 52 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 680 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 680 | U |
| 95-57-8 | 2-Chlorophenol | 680 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 680 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 680 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 680 | U |
| 95-48-7 | 2-Methylphenol | 680 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 680 | U |
| 106-44-5 | 4-Methylphenol | 680 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 680 | U |
| 67-72-1 | Hexachloroethane | 680 | U |
| 98-95-3 | Nitrobenzene | 680 | U |
| 78-59-1 | Isophorone | 680 | U |
| 88-75-5 | 2-Nitrophenol | 680 | U |
| 105-67-9 | 2,4-Dimethylphenol | 680 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 680 | U |
| 120-83-2 | 2,4-Dichlorophenol | 680 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 680 | U |
| 91-20-3 | Naphthalene | 680 | U |
| 106-47-8 | 4-Chloroaniline | 680 | U |
| 87-68-3 | Hexachlorobutadiene | 680 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 680 | U |
| 91-57-6 | 2-Methylnaphthalene | 680 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 680 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 680 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 680 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 680 | U |
| 208-96-8 | Acenaphthylene | 630 | J |
| 606-20-2 | 2,6-Dinitrotoluene | 680 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 680 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD22

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 52 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 680 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 680 | U |
| 84-66-2 | Diethylphthalate | 680 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 680 | U |
| 86-73-7 | Fluorene | 680 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 680 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 680 | U |
| 118-74-1 | Hexachlorobenzene | 680 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 130 | J |
| 120-12-7 | Anthracene | 460 | J |
| 86-74-8 | Carbazole | 680 | U |
| 84-74-2 | Di-n-butylphthalate | 680 | U |
| 206-44-0 | Fluoranthene | 820 | |
| 129-00-0 | Pyrene | 1400 | |
| 85-68-7 | Butylbenzylphthalate | 680 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 680 | U |
| 56-55-3 | Benzo(a)anthracene | 1600 | |
| 218-01-9 | Chrysene | 1900 | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 240 | J |
| 117-84-0 | Di-n-octylphthalate | 680 | U |
| 205-99-2 | Benzo(b)fluoranthene | 2400 | |
| 207-08-9 | Benzo(k)fluoranthene | 1300 | |
| 50-32-8 | Benzo(a)pyrene | 2000 | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 970 | |
| 53-70-3 | Dibenz(a,h)anthracene | 640 | J |
| 191-24-2 | Benzo(g,h,i)perylene | 500 | J |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD22

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547919

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607806.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 52 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.270 | 2800 | J |
| 2. 621829 | 2-Propenoic acid, 3-phenyl- | 15.900 | 1600 | NJ |
| 3. | Unknown | 24.710 | 1600 | J |
| 4. | Unknown PAH | 24.980 | 2400 | J |
| 5. | Unknown PAH | 25.130 | 1600 | J |
| 6. | Unknown | 25.210 | 1700 | J |
| 7. | Unknown | 26.070 | 1500 | J |
| 8. | Benzo[b]naphthothiophene iso | 26.550 | 2200 | J |
| 9. | Unknown | 26.680 | 2000 | J |
| 10. | Unknown alkane | 26.900 | 2500 | J |
| 11. | Unknown PAH | 27.170 | 4600 | J |
| 12. | Unknown | 27.700 | 1800 | J |
| 13. | Unknown | 27.900 | 1500 | J |
| 14. | Unknown alkane | 28.490 | 6100 | J |
| 15. | Unknown alkane | 30.050 | 3500 | J |
| 16. | Unknown alkane | 31.960 | 1400 | J |
| 17. | Unknown | 36.160 | 2200 | J |
| 18. | Unknown | 36.550 | 1900 | J |
| 19. | Unknown | 37.430 | 2700 | J |
| 20. | Unknown | 38.840 | 4300 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD2291

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547918

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607807.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 530 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 530 | U |
| 95-57-8 | 2-Chlorophenol | 530 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 530 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 530 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 530 | U |
| 95-48-7 | 2-Methylphenol | 530 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 530 | U |
| 106-44-5 | 4-Methylphenol | 530 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 530 | U |
| 67-72-1 | Hexachloroethane | 530 | U |
| 98-95-3 | Nitrobenzene | 530 | U |
| 78-59-1 | Isophorone | 530 | U |
| 88-75-5 | 2-Nitrophenol | 530 | U |
| 105-67-9 | 2,4-Dimethylphenol | 530 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 530 | U |
| 120-83-2 | 2,4-Dichlorophenol | 530 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 530 | U |
| 91-20-3 | Naphthalene | 530 | U |
| 106-47-8 | 4-Chloroaniline | 530 | U |
| 87-68-3 | Hexachlorobutadiene | 530 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 530 | U |
| 91-57-6 | 2-Methylnaphthalene | 530 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 530 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 530 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 530 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 530 | U |
| 208-96-8 | Acenaphthylene | 110 | J |
| 606-20-2 | 2,6-Dinitrotoluene | 530 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 530 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD2291

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547918

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607807.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 530 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 530 | U |
| 84-66-2 | Diethylphthalate | 530 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 530 | U |
| 86-73-7 | Fluorene | 530 | U |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 530 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 530 | U |
| 118-74-1 | Hexachlorobenzene | 530 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 530 | U |
| 120-12-7 | Anthracene | 80 | J |
| 86-74-8 | Carbazole | 530 | U |
| 84-74-2 | Di-n-butylphthalate | 530 | U |
| 206-44-0 | Fluoranthene | 170 | J |
| 129-00-0 | Pyrene | 220 | J |
| 85-68-7 | Butylbenzylphthalate | 530 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 530 | U |
| 56-55-3 | Benzo(a)anthracene | 240 | J |
| 218-01-9 | Chrysene | 320 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 170 | J |
| 117-84-0 | Di-n-octylphthalate | 530 | U |
| 205-99-2 | Benzo(b)fluoranthene | 370 | J |
| 207-08-9 | Benzo(k)fluoranthene | 320 | J |
| 50-32-8 | Benzo(a)pyrene | 320 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 140 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 90 | J |
| 191-24-2 | Benzo(g,h,i)perylene | 76 | J |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD2291

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547918

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607807.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.270 | 2100 | J |
| 2. | 65850 | Benzoic acid | 12.370 | 430 | NJ |
| 3. | | Unknown | 15.490 | 620 | J |
| 4. | 7400080 | 2-Propenoic acid, 3-(4-hydro | 20.320 | 760 | NJ |
| 5. | 57103 | Hexadecanoic acid | 22.030 | 640 | NJX |
| 6. | | Unknown | 27.330 | 2600 | J |
| 7. | | Unknown | 27.920 | 770 | J |
| 8. | | Unknown | 28.770 | 2000 | J |
| 9. | 480400 | Chrysin | 28.980 | 680 | NJ |
| 10. | | Unknown | 29.230 | 1100 | J |
| 11. | 548834 | 4H-1-Benzopyran-4-one, 3,5,7 | 29.380 | 1800 | NJ |
| 12. | | Unknown | 29.620 | 500 | J |
| 13. | | Unknown alkane | 30.040 | 2300 | J |
| 14. | | Unknown branched alkane | 31.980 | 2200 | J |
| 15. | | Unknown alkane | 34.600 | 580 | J |
| 16. | 14021239 | D-Friedoolean-14-ene, 3-meth | 34.910 | 500 | NJ |
| 17. | | Unknown | 36.160 | 1300 | J |
| 18. | | Unknown | 37.380 | 430 | J |
| 19. | | Unknown | 38.480 | 510 | J |
| 20. | 1058613 | Stigmast-4-en-3-one | 38.830 | 2500 | NJ |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD23

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607805.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 420 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 420 | U |
| 95-57-8 | 2-Chlorophenol | 420 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 420 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 420 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 420 | U |
| 95-48-7 | 2-Methylphenol | 420 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 420 | U |
| 106-44-5 | 4-Methylphenol | 420 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 420 | U |
| 67-72-1 | Hexachloroethane | 420 | U |
| 98-95-3 | Nitrobenzene | 420 | U |
| 78-59-1 | Isophorone | 420 | U |
| 88-75-5 | 2-Nitrophenol | 420 | U |
| 105-67-9 | 2,4-Dimethylphenol | 420 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 420 | U |
| 120-83-2 | 2,4-Dichlorophenol | 420 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420 | U |
| 91-20-3 | Naphthalene | 420 | U |
| 106-47-8 | 4-Chloroaniline | 420 | U |
| 87-68-3 | Hexachlorobutadiene | 420 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 420 | U |
| 91-57-6 | 2-Methylnaphthalene | 420 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 420 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 420 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1000 | U |
| 91-58-7 | 2-Chloronaphthalene | 420 | U |
| 88-74-4 | 2-Nitroaniline | 1000 | U |
| 131-11-3 | Dimethylphthalate | 420 | U |
| 208-96-8 | Acenaphthylene | 420 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 420 | U |
| 99-09-2 | 3-Nitroaniline | 1000 | U |
| 83-32-9 | Acenaphthene | 420 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD23

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607805.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1000 | U |
| 100-02-7 | 4-Nitrophenol | 1000 | U |
| 132-64-9 | Dibenzofuran | 420 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 420 | U |
| 84-66-2 | Diethylphthalate | 420 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 420 | U |
| 86-73-7 | Fluorene | 420 | U |
| 100-01-6 | 4-Nitroaniline | 1000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 420 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 420 | U |
| 118-74-1 | Hexachlorobenzene | 420 | U |
| 87-86-5 | Pentachlorophenol | 1000 | U |
| 85-01-8 | Phenanthrene | 66 | J |
| 120-12-7 | Anthracene | 420 | U |
| 86-74-8 | Carbazole | 420 | U |
| 84-74-2 | Di-n-butylphthalate | 420 | U |
| 206-44-0 | Fluoranthene | 130 | J |
| 129-00-0 | Pyrene | 110 | J |
| 85-68-7 | Butylbenzylphthalate | 420 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 420 | U |
| 56-55-3 | Benzo(a)anthracene | 71 | J |
| 218-01-9 | Chrysene | 95 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 720 | |
| 117-84-0 | Di-n-octylphthalate | 420 | U |
| 205-99-2 | Benzo(b)fluoranthene | 93 | J |
| 207-08-9 | Benzo(k)fluoranthene | 420 | U |
| 50-32-8 | Benzo(a)pyrene | 73 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 420 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 420 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD23

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547920

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607805.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 22 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.270 | 1600 | J |
| 2. | Unknown | 14.120 | 230 | J |
| 3. 57103 | Hexadecanoic acid | 22.020 | 260 | NJX |
| 4. | 1,1'-Biphenyl isomer, tetrac | 22.240 | 210 | J |
| 5. 314409 | Bromacil | 22.300 | 370 | NJ |
| 6. | 1,1'-Biphenyl isomer, tetrac | 22.590 | 210 | J |
| 7. | 1,1'-Biphenyl isomer, tetrac | 22.860 | 180 | J |
| 8. | 1,1'-Biphenyl isomer, tetrac | 23.400 | 220 | J |
| 9. | Unknown | 24.360 | 1100 | J |
| 10. | 1,1'-Biphenyl isomer, pentac | 24.710 | 190 | J |
| 11. | 1,1'-Biphenyl isomer, pentac | 25.210 | 180 | J |
| 12. | Unknown phthalate | 26.680 | 370 | J |
| 13. | Unknown alkane | 28.480 | 200 | J |
| 14. | Unknown | 29.570 | 190 | J |
| 15. | Unknown | 32.470 | 220 | J |
| 16. 14021239 | D-Friedoolean-14-ene, 3-meth | 34.920 | 700 | NJ |
| 17. | Unknown | 36.240 | 310 | J |
| 18. | Unknown | 38.130 | 290 | J |
| 19. | Unknown | 38.520 | 780 | J |
| 20. | Unknown | 38.680 | 2000 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD26

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547906

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H15.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 58 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 780 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 780 | U |
| 95-57-8 | 2-Chlorophenol | 780 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 780 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 780 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 780 | U |
| 95-48-7 | 2-Methylphenol | 780 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 780 | U |
| 106-44-5 | 4-Methylphenol | 780 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 780 | U |
| 67-72-1 | Hexachloroethane | 780 | U |
| 98-95-3 | Nitrobenzene | 780 | U |
| 78-59-1 | Isophorone | 42 | J |
| 88-75-5 | 2-Nitrophenol | 780 | U |
| 105-67-9 | 2,4-Dimethylphenol | 780 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 780 | U |
| 120-83-2 | 2,4-Dichlorophenol | 780 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 780 | U |
| 91-20-3 | Naphthalene | 780 | U |
| 106-47-8 | 4-Chloroaniline | 780 | U |
| 87-68-3 | Hexachlorobutadiene | 780 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 780 | U |
| 91-57-6 | 2-Methylnaphthalene | 780 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 780 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 780 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1900 | U |
| 91-58-7 | 2-Chloronaphthalene | 780 | U |
| 88-74-4 | 2-Nitroaniline | 1900 | U |
| 131-11-3 | Dimethylphthalate | 780 | U |
| 208-96-8 | Acenaphthylene | 780 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 780 | U |
| 99-09-2 | 3-Nitroaniline | 1900 | U |
| 83-32-9 | Acenaphthene | 780 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD26

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547906

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H15.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 58 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1900 | U |
| 100-02-7 | 4-Nitrophenol | 1900 | U |
| 132-64-9 | Dibenzofuran | 780 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 780 | U |
| 84-66-2 | Diethylphthalate | 780 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 780 | U |
| 86-73-7 | Fluorene | 780 | U |
| 100-01-6 | 4-Nitroaniline | 1900 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1900 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 780 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 780 | U |
| 118-74-1 | Hexachlorobenzene | 780 | U |
| 87-86-5 | Pentachlorophenol | 1900 | U |
| 85-01-8 | Phenanthrene | 110 | J |
| 120-12-7 | Anthracene | 780 | U |
| 86-74-8 | Carbazole | 780 | U |
| 84-74-2 | Di-n-butylphthalate | 780 | U |
| 206-44-0 | Fluoranthene | 190 | J |
| 129-00-0 | Pyrene | 210 | J |
| 85-68-7 | Butylbenzylphthalate | 780 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 780 | U |
| 56-55-3 | Benzo(a)anthracene | 100 | J |
| 218-01-9 | Chrysene | 150 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1400 | |
| 117-84-0 | Di-n-octylphthalate | 780 | U |
| 205-99-2 | Benzo(b)fluoranthene | 200 | J |
| 207-08-9 | Benzo(k)fluoranthene | 780 | U |
| 50-32-8 | Benzo(a)pyrene | 130 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 98 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 780 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 780 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD26

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547906

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H15.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 58 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.380 | 2800 | JB |
| 2. | | Unknown phthalate | 24.900 | 580 | J |
| 3. | | Unknown phthalate | 25.080 | 870 | J |
| 4. | | Unknown phthalate | 25.150 | 1300 | J |
| 5. | | Unknown phthalate | 25.320 | 1200 | J |
| 6. | | Unknown phthalate | 25.440 | 2400 | J |
| 7. | | Unknown phthalate | 25.610 | 1500 | J |
| 8. | | Unknown phthalate | 25.680 | 2000 | J |
| 9. | | Unknown phthalate | 25.950 | 1600 | J |
| 10. | 14047097 | Diazene, bis(3,4-dichlorophe | 26.920 | 1200 | NJ |
| 11. | | Unknown alkane | 27.090 | 800 | J |
| 12. | | Unknown alkane | 28.680 | 1400 | J |
| 13. | | Unknown alkane | 30.280 | 1200 | J |
| 14. | | Unknown | 30.470 | 610 | JB |
| 15. | | Unknown alkane | 32.290 | 730 | J |
| 16. | | Unknown | 32.860 | 1000 | JB |
| 17. | 14021239 | D-Friedoolean-14-ene, 3-meth | 35.450 | 2300 | NJ |
| 18. | | Unknown | 36.860 | 1300 | JB |
| 19. | | Unknown | 39.170 | 620 | JB |
| 20. | 1058613 | Stigmast-4-en-3-one | 39.470 | 3100 | NJ |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547907

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 710 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 710 | U |
| 95-57-8 | 2-Chlorophenol | 710 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 710 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 710 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 710 | U |
| 95-48-7 | 2-Methylphenol | 710 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 710 | U |
| 106-44-5 | 4-Methylphenol | 710 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 710 | U |
| 67-72-1 | Hexachloroethane | 710 | U |
| 98-95-3 | Nitrobenzene | 710 | U |
| 78-59-1 | Isophorone | 710 | U |
| 88-75-5 | 2-Nitrophenol | 710 | U |
| 105-67-9 | 2,4-Dimethylphenol | 710 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 710 | U |
| 120-83-2 | 2,4-Dichlorophenol | 710 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 710 | U |
| 91-20-3 | Naphthalene | 710 | U |
| 106-47-8 | 4-Chloroaniline | 710 | U |
| 87-68-3 | Hexachlorobutadiene | 710 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 710 | U |
| 91-57-6 | 2-Methylnaphthalene | 710 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 710 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 710 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 710 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 710 | U |
| 208-96-8 | Acenaphthylene | 710 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 710 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 710 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547907

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 710 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 710 | U |
| 84-66-2 | Diethylphthalate | 710 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 710 | U |
| 86-73-7 | Fluorene | 710 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 710 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 710 | U |
| 118-74-1 | Hexachlorobenzene | 710 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 710 | U |
| 120-12-7 | Anthracene | 710 | U |
| 86-74-8 | Carbazole | 710 | U |
| 84-74-2 | Di-n-butylphthalate | 710 | U |
| 206-44-0 | Fluoranthene | 96 | J |
| 129-00-0 | Pyrene | 710 | U |
| 85-68-7 | Butylbenzylphthalate | 710 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 710 | U |
| 56-55-3 | Benzo(a)anthracene | 710 | U |
| 218-01-9 | Chrysene | 710 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 240 | J |
| 117-84-0 | Di-n-octylphthalate | 710 | U |
| 205-99-2 | Benzo(b)fluoranthene | 710 | U |
| 207-08-9 | Benzo(k)fluoranthene | 710 | U |
| 50-32-8 | Benzo(a)pyrene | 710 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 710 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 710 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 710 | U |

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547907

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H11.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.380 | 2600 | JB |
| 2. 65850 | Benzoic acid | 12.120 | 860 | NJX |
| 3. 57103 | Hexadecanoic acid | 22.200 | 1200 | NJX |
| 4. | Unknown alkane | 25.360 | 1100 | J |
| 5. | Unknown alkane | 27.090 | 2800 | J |
| 6. | Unknown | 27.710 | 640 | JB |
| 7. | Unknown alkane | 27.880 | 390 | J |
| 8. | Unknown | 28.080 | 1400 | JB |
| 9. | Unknown alkane | 28.710 | 6000 | J |
| 10. | Unknown | 29.770 | 1000 | JB |
| 11. | Unknown alkane | 30.250 | 1400 | J |
| 12. | Unknown | 31.700 | 410 | JB |
| 13. | Unknown alkane | 32.250 | 800 | J |
| 14. | Unknown | 32.820 | 580 | JB |
| 15. 14021239 | D-Friedoolean-14-ene, 3-meth | 35.440 | 4900 | NJ |
| 16. 83476 | .gamma.-Sitosterol | 36.610 | 1200 | NJ |
| 17. | Unknown | 36.760 | 470 | JB |
| 18. 1058613 | Stigmast-4-en-3-one | 38.780 | 630 | NJ |
| 19. | Unknown | 39.090 | 650 | JB |
| 20. | Unknown | 39.450 | 2300 | JB |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD28

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547908

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 720 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 720 | U |
| 95-57-8 | 2-Chlorophenol | 720 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 720 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 720 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 720 | U |
| 95-48-7 | 2-Methylphenol | 720 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 720 | U |
| 106-44-5 | 4-Methylphenol | 720 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 720 | U |
| 67-72-1 | Hexachloroethane | 720 | U |
| 98-95-3 | Nitrobenzene | 720 | U |
| 78-59-1 | Isophorone | 720 | U |
| 88-75-5 | 2-Nitrophenol | 720 | U |
| 105-67-9 | 2,4-Dimethylphenol | 720 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 720 | U |
| 120-83-2 | 2,4-Dichlorophenol | 720 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 720 | U |
| 91-20-3 | Naphthalene | 720 | U |
| 106-47-8 | 4-Chloroaniline | 720 | U |
| 87-68-3 | Hexachlorobutadiene | 720 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 720 | U |
| 91-57-6 | 2-Methylnaphthalene | 720 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 720 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 720 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 720 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 720 | U |
| 208-96-8 | Acenaphthylene | 720 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 720 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 720 | U |

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD28

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547908

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 720 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 720 | U |
| 84-66-2 | Diethylphthalate | 720 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 720 | U |
| 86-73-7 | Fluorene | 720 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 720 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 720 | U |
| 118-74-1 | Hexachlorobenzene | 720 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 720 | U |
| 120-12-7 | Anthracene | 720 | U |
| 86-74-8 | Carbazole | 720 | U |
| 84-74-2 | Di-n-butylphthalate | 720 | U |
| 206-44-0 | Fluoranthene | 150 | J |
| 129-00-0 | Pyrene | 160 | J |
| 85-68-7 | Butylbenzylphthalate | 720 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 720 | U |
| 56-55-3 | Benzo(a)anthracene | 92 | J |
| 218-01-9 | Chrysene | 120 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1100 | |
| 117-84-0 | Di-n-octylphthalate | 720 | U |
| 205-99-2 | Benzo(b)fluoranthene | 190 | J |
| 207-08-9 | Benzo(k)fluoranthene | 720 | U |
| 50-32-8 | Benzo(a)pyrene | 120 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 100 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 720 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 720 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD28

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547908

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H09.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 54 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.370 | 2400 | J |
| 2. | | Unknown | 14.280 | 480 | J |
| 3. | 14047097 | Diazene, bis(3,4-dichlorphen | 26.940 | 640 | NJ |
| 4. | | Unknown alkane | 27.120 | 620 | J |
| 5. | | Unknown | 27.750 | 1000 | J |
| 6. | | Unknown | 28.110 | 1700 | J |
| 7. | | Unknown | 28.180 | 1200 | J |
| 8. | | Unknown | 28.390 | 5100 | J |
| 9. | | Unknown alkane | 28.710 | 850 | J |
| 10. | | Unknown alkane | 30.310 | 760 | J |
| 11. | | Unknown alkane | 32.330 | 840 | J |
| 12. | | Unknown | 32.910 | 1100 | J |
| 13. | | Unknown alkane | 35.140 | 750 | J |
| 14. | 14021239 | D-Friedoolean-14-ene, 3-meth | 35.610 | 8000 | NJ |
| 15. | | Unknown | 35.990 | 1600 | J |
| 16. | | Unknown | 36.920 | 660 | J |
| 17. | | Unknown | 38.940 | 990 | J |
| 18. | | Unknown | 39.250 | 660 | J |
| 19. | | Unknown | 39.430 | 1100 | J |
| 20. | | Unknown | 39.560 | 1000 | J |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H04.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 440 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 440 | U |
| 95-57-8 | 2-Chlorophenol | 440 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 440 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 440 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 440 | U |
| 95-48-7 | 2-Methylphenol | 440 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 440 | U |
| 106-44-5 | 4-Methylphenol | 440 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 440 | U |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 440 | U |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 440 | U |
| 91-20-3 | Naphthalene | 440 | U |
| 106-47-8 | 4-Chloroaniline | 440 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 440 | U |
| 91-57-6 | 2-Methylnaphthalene | 440 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 440 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U |
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 1100 | U |
| 131-11-3 | Dimethylphthalate | 440 | U |
| 208-96-8 | Acenaphthylene | 440 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 99-09-2 | 3-Nitroaniline | 1100 | U |
| 83-32-9 | Acenaphthene | 440 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H04.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1100 | U |
| 100-02-7 | 4-Nitrophenol | 1100 | U |
| 132-64-9 | Dibenzofuran | 440 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 440 | U |
| 84-66-2 | Diethylphthalate | 440 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 440 | U |
| 86-73-7 | Fluorene | 440 | U |
| 100-01-6 | 4-Nitroaniline | 1100 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1100 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 440 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 440 | U |
| 118-74-1 | Hexachlorobenzene | 440 | U |
| 87-86-5 | Pentachlorophenol | 1100 | U |
| 85-01-8 | Phenanthrene | 440 | U |
| 120-12-7 | Anthracene | 440 | U |
| 86-74-8 | Carbazole | 440 | U |
| 84-74-2 | Di-n-butylphthalate | 440 | U |
| 206-44-0 | Fluoranthene | 440 | U |
| 129-00-0 | Pyrene | 440 | U |
| 85-68-7 | Butylbenzylphthalate | 440 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 440 | U |
| 56-55-3 | Benzo(a)anthracene | 440 | U |
| 218-01-9 | Chrysene | 440 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 280 | J |
| 117-84-0 | Di-n-octylphthalate | 440 | U |
| 205-99-2 | Benzo(b)fluoranthene | 440 | U |
| 207-08-9 | Benzo(k)fluoranthene | 440 | U |
| 50-32-8 | Benzo(a)pyrene | 440 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 440 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 440 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 440 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD29

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H04.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.360 | 1300 | J |
| 2. | Unknown | 20.940 | 260 | J |
| 3. | Unknown | 21.710 | 310 | J |
| 4. | Unknown | 21.780 | 200 | J |
| 5. | Unknown | 22.010 | 180 | J |
| 6. | Unknown | 22.100 | 200 | J |
| 7. | Unknown | 22.210 | 240 | J |
| 8. | Unknown | 22.470 | 1100 | J |
| 9. | Unknown | 23.230 | 180 | J |
| 10. | Unknown | 26.660 | 710 | J |
| 11. | Unknown | 28.280 | 220 | J |
| 12. | Unknown alkane | 28.650 | 200 | J |
| 13. | Unknown | 29.030 | 220 | J |
| 14. | Unknown | 29.140 | 200 | J |
| 15. | Unknown | 31.510 | 500 | J |
| 16. | Unknown | 33.650 | 270 | J |
| 17. 14021239 | D-Friedoolean-14-ene, 3-meth | 35.370 | 810 | NJ |
| 18. | Unknown | 36.930 | 180 | J |
| 19. | Unknown | 38.050 | 370 | J |
| 20. | Unknown | 39.410 | 280 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29MS

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607809.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 3100 | |
| 111-44-4 | bis(2-Chloroethyl)ether | 440 | U |
| 95-57-8 | 2-Chlorophenol | 3000 | |
| 541-73-1 | 1,3-Dichlorobenzene | 440 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1600 | |
| 95-50-1 | 1,2-Dichlorobenzene | 440 | U |
| 95-48-7 | 2-Methylphenol | 440 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 440 | U |
| 106-44-5 | 4-Methylphenol | 440 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1800 | |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 440 | U |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1700 | |
| 91-20-3 | Naphthalene | 440 | U |
| 106-47-8 | 4-Chloroaniline | 440 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 3000 | |
| 91-57-6 | 2-Methylnaphthalene | 440 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 440 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U |
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 1100 | U |
| 131-11-3 | Dimethylphthalate | 440 | U |
| 208-96-8 | Acenaphthylene | 41 | J |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 99-09-2 | 3-Nitroaniline | 1100 | U |
| 83-32-9 | Acenaphthene | 1800 | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29MS

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607809.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1100 | U |
| 100-02-7 | 4-Nitrophenol | 3300 | |
| 132-64-9 | Dibenzofuran | 440 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | |
| 84-66-2 | Diethylphthalate | 440 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 440 | U |
| 86-73-7 | Fluorene | 440 | U |
| 100-01-6 | 4-Nitroaniline | 1100 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1100 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 440 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 440 | U |
| 118-74-1 | Hexachlorobenzene | 440 | U |
| 87-86-5 | Pentachlorophenol | 2700 | |
| 85-01-8 | Phenanthrene | 440 | U |
| 120-12-7 | Anthracene | 440 | U |
| 86-74-8 | Carbazole | 440 | U |
| 84-74-2 | Di-n-butylphthalate | 440 | U |
| 206-44-0 | Fluoranthene | 440 | U |
| 129-00-0 | Pyrene | 1600 | |
| 85-68-7 | Butylbenzylphthalate | 440 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 440 | U |
| 56-55-3 | Benzo(a)anthracene | 440 | U |
| 218-01-9 | Chrysene | 65 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 700 | |
| 117-84-0 | Di-n-octylphthalate | 440 | U |
| 205-99-2 | Benzo(b)fluoranthene | 110 | J |
| 207-08-9 | Benzo(k)fluoranthene | 78 | J |
| 50-32-8 | Benzo(a)pyrene | 91 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 55 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 440 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 440 | U |

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29MSD

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607810.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 2700 | |
| 111-44-4 | bis(2-Chloroethyl)ether | 440 | U |
| 95-57-8 | 2-Chlorophenol | 2600 | |
| 541-73-1 | 1,3-Dichlorobenzene | 440 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1400 | |
| 95-50-1 | 1,2-Dichlorobenzene | 440 | U |
| 95-48-7 | 2-Methylphenol | 440 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 440 | U |
| 106-44-5 | 4-Methylphenol | 440 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1500 | |
| 67-72-1 | Hexachloroethane | 440 | U |
| 98-95-3 | Nitrobenzene | 440 | U |
| 78-59-1 | Isophorone | 69 | J |
| 88-75-5 | 2-Nitrophenol | 440 | U |
| 105-67-9 | 2,4-Dimethylphenol | 440 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 440 | U |
| 120-83-2 | 2,4-Dichlorophenol | 440 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1400 | |
| 91-20-3 | Naphthalene | 440 | U |
| 106-47-8 | 4-Chloroaniline | 440 | U |
| 87-68-3 | Hexachlorobutadiene | 440 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 2700 | |
| 91-57-6 | 2-Methylnaphthalene | 440 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 440 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 440 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1100 | U |
| 91-58-7 | 2-Chloronaphthalene | 440 | U |
| 88-74-4 | 2-Nitroaniline | 1100 | U |
| 131-11-3 | Dimethylphthalate | 440 | U |
| 208-96-8 | Acenaphthylene | 440 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 440 | U |
| 99-09-2 | 3-Nitroaniline | 1100 | U |
| 83-32-9 | Acenaphthene | 1500 | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD29MSD

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547901MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0607810.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1100 | U |
| 100-02-7 | 4-Nitrophenol | 3000 | |
| 132-64-9 | Dibenzofuran | 440 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 1600 | |
| 84-66-2 | Diethylphthalate | 440 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 440 | U |
| 86-73-7 | Fluorene | 440 | U |
| 100-01-6 | 4-Nitroaniline | 1100 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1100 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 440 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 440 | U |
| 118-74-1 | Hexachlorobenzene | 440 | U |
| 87-86-5 | Pentachlorophenol | 2400 | |
| 85-01-8 | Phenanthrene | 440 | U |
| 120-12-7 | Anthracene | 440 | U |
| 86-74-8 | Carbazole | 440 | U |
| 84-74-2 | Di-n-butylphthalate | 440 | U |
| 206-44-0 | Fluoranthene | 50 | J |
| 129-00-0 | Pyrene | 1500 | |
| 85-68-7 | Butylbenzylphthalate | 440 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 440 | U |
| 56-55-3 | Benzo(a)anthracene | 440 | U |
| 218-01-9 | Chrysene | 62 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 600 | |
| 117-84-0 | Di-n-octylphthalate | 440 | U |
| 205-99-2 | Benzo(b)fluoranthene | 110 | J |
| 207-08-9 | Benzo(k)fluoranthene | 80 | J |
| 50-32-8 | Benzo(a)pyrene | 80 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 46 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 26 | J |
| 191-24-2 | Benzo(g,h,i)perylene | 23 | J |

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD2991

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H05.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 39 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 540 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 540 | U |
| 95-57-8 | 2-Chlorophenol | 540 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 540 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 540 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 540 | U |
| 95-48-7 | 2-Methylphenol | 540 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 540 | U |
| 106-44-5 | 4-Methylphenol | 540 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 540 | U |
| 67-72-1 | Hexachloroethane | 540 | U |
| 98-95-3 | Nitrobenzene | 540 | U |
| 78-59-1 | Isophorone | 540 | U |
| 88-75-5 | 2-Nitrophenol | 540 | U |
| 105-67-9 | 2,4-Dimethylphenol | 540 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 540 | U |
| 120-83-2 | 2,4-Dichlorophenol | 540 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 540 | U |
| 91-20-3 | Naphthalene | 540 | U |
| 106-47-8 | 4-Chloroaniline | 540 | U |
| 87-68-3 | Hexachlorobutadiene | 540 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 540 | U |
| 91-57-6 | 2-Methylnaphthalene | 540 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 540 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 540 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 540 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 540 | U |
| 208-96-8 | Acenaphthylene | 120 | J |
| 606-20-2 | 2,6-Dinitrotoluene | 540 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 540 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD2991

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H05.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 39 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 540 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 540 | U |
| 84-66-2 | Diethylphthalate | 540 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 540 | U |
| 86-73-7 | Fluorene | 540 | U |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 540 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 540 | U |
| 118-74-1 | Hexachlorobenzene | 540 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 540 | U |
| 120-12-7 | Anthracene | 70 | J |
| 86-74-8 | Carbazole | 540 | U |
| 84-74-2 | Di-n-butylphthalate | 540 | U |
| 206-44-0 | Fluoranthene | 350 | J |
| 129-00-0 | Pyrene | 330 | J |
| 85-68-7 | Butylbenzylphthalate | 540 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 540 | U |
| 56-55-3 | Benzo(a)anthracene | 280 | J |
| 218-01-9 | Chrysene | 340 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 690 | |
| 117-84-0 | Di-n-octylphthalate | 540 | U |
| 205-99-2 | Benzo(b)fluoranthene | 440 | J |
| 207-08-9 | Benzo(k)fluoranthene | 380 | J |
| 50-32-8 | Benzo(a)pyrene | 360 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 240 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 140 | J |
| 191-24-2 | Benzo(g,h,i)perylene | 150 | J |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD2991

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547902

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H05.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 39 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.360 | 1400 | J |
| 2. 134623 | Diethyltouamide | 18.010 | 330 | NJ |
| 3. 57103 | Hexadecanoic acid | 22.170 | 290 | NJX |
| 4. | Unknown | 24.540 | 570 | J |
| 5. | Unknown alkane | 27.080 | 290 | J |
| 6. | Unknown | 27.760 | 300 | J |
| 7. | Unknown alkane | 28.660 | 350 | J |
| 8. | Unknown alkane | 30.240 | 380 | J |
| 9. | Unknown PAH | 30.780 | 250 | J |
| 10. | Unknown alkane | 32.260 | 330 | J |
| 11. | Unknown alkane | 35.030 | 240 | J |
| 12. 14021239 | D-Friedoolean-14-ene, 3-meth | 35.450 | 3400 | NJ |
| 13. | Unknown | 35.850 | 480 | J |
| 14. | Unknown | 36.560 | 420 | J |
| 15. | Unknown | 37.060 | 630 | J |
| 16. | Unknown | 37.560 | 650 | J |
| 17. | Unknown | 37.990 | 370 | J |
| 18. | Unknown | 38.810 | 260 | J |
| 19. | Unknown | 39.140 | 550 | J |
| 20. | Unknown | 39.570 | 2500 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD30

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547903

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607815.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 700 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 700 | U |
| 95-57-8 | 2-Chlorophenol | 700 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 700 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 700 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 700 | U |
| 95-48-7 | 2-Methylphenol | 700 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 700 | U |
| 106-44-5 | 4-Methylphenol | 700 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 700 | U |
| 67-72-1 | Hexachloroethane | 700 | U |
| 98-95-3 | Nitrobenzene | 700 | U |
| 78-59-1 | Isophorone | 700 | U |
| 88-75-5 | 2-Nitrophenol | 700 | U |
| 105-67-9 | 2,4-Dimethylphenol | 700 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 700 | U |
| 120-83-2 | 2,4-Dichlorophenol | 700 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 700 | U |
| 91-20-3 | Naphthalene | 700 | U |
| 106-47-8 | 4-Chloroaniline | 700 | U |
| 87-68-3 | Hexachlorobutadiene | 700 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 700 | U |
| 91-57-6 | 2-Methylnaphthalene | 700 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 700 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 700 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1700 | U |
| 91-58-7 | 2-Chloronaphthalene | 700 | U |
| 88-74-4 | 2-Nitroaniline | 1700 | U |
| 131-11-3 | Dimethylphthalate | 700 | U |
| 208-96-8 | Acenaphthylene | 700 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 700 | U |
| 99-09-2 | 3-Nitroaniline | 1700 | U |
| 83-32-9 | Acenaphthene | 700 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD30

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547903

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607815.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1700 | U |
| 100-02-7 | 4-Nitrophenol | 1700 | U |
| 132-64-9 | Dibenzofuran | 700 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 700 | U |
| 84-66-2 | Diethylphthalate | 700 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 700 | U |
| 86-73-7 | Fluorene | 700 | U |
| 100-01-6 | 4-Nitroaniline | 1700 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1700 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 700 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 700 | U |
| 118-74-1 | Hexachlorobenzene | 700 | U |
| 87-86-5 | Pentachlorophenol | 1700 | U |
| 85-01-8 | Phenanthrene | 77 | J |
| 120-12-7 | Anthracene | 700 | U |
| 86-74-8 | Carbazole | 700 | U |
| 84-74-2 | Di-n-butylphthalate | 700 | U |
| 206-44-0 | Fluoranthene | 130 | J |
| 129-00-0 | Pyrene | 100 | J |
| 85-68-7 | Butylbenzylphthalate | 700 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 700 | U |
| 56-55-3 | Benzo(a)anthracene | 700 | U |
| 218-01-9 | Chrysene | 85 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 870 | |
| 117-84-0 | Di-n-octylphthalate | 700 | U |
| 205-99-2 | Benzo(b)fluoranthene | 120 | J |
| 207-08-9 | Benzo(k)fluoranthene | 700 | U |
| 50-32-8 | Benzo(a)pyrene | 700 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 700 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 700 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 700 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD30

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547903

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607815.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 53 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.270 | 2500 | J |
| 2. | Unknown | 26.910 | 920 | J |
| 3. | Unknown alkane | 28.500 | 1400 | J |
| 4. | Unknown alkane | 29.240 | 540 | J |
| 5. | Unknown | 29.590 | 1100 | J |
| 6. | Unknown alkane | 30.050 | 2300 | J |
| 7. | Unknown aldehyde | 31.440 | 1200 | J |
| 8. | Unknown alkane | 31.970 | 1500 | J |
| 9. | Unknown | 32.500 | 620 | J |
| 10. | Unknown | 33.930 | 660 | J |
| 11. 14021239 | D-Friedoolean014-ene, 3-meth | 34.970 | 3400 | NJ |
| 12. | Unknown | 35.380 | 870 | J |
| 13. | Unknown | 36.270 | 1000 | J |
| 14. | Unknown | 36.540 | 680 | J |
| 15. | Unknown | 37.000 | 640 | J |
| 16. | Unknown | 37.110 | 810 | J |
| 17. | Unknown | 37.270 | 800 | J |
| 18. | Unknown | 37.420 | 790 | J |
| 19. | Unknown | 38.190 | 620 | J |
| 20. 1058613 | Stigmast-4-en-3-one | 38.840 | 1600 | NJ |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD31

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547911

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H14.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 56 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 740 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 740 | U |
| 95-57-8 | 2-Chlorophenol | 740 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 740 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 740 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 740 | U |
| 95-48-7 | 2-Methylphenol | 740 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 740 | U |
| 106-44-5 | 4-Methylphenol | 740 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 740 | U |
| 67-72-1 | Hexachloroethane | 740 | U |
| 98-95-3 | Nitrobenzene | 740 | U |
| 78-59-1 | Isophorone | 740 | U |
| 88-75-5 | 2-Nitrophenol | 740 | U |
| 105-67-9 | 2,4-Dimethylphenol | 740 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 740 | U |
| 120-83-2 | 2,4-Dichlorophenol | 740 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 740 | U |
| 91-20-3 | Naphthalene | 740 | U |
| 106-47-8 | 4-Chloroaniline | 740 | U |
| 87-68-3 | Hexachlorobutadiene | 740 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 740 | U |
| 91-57-6 | 2-Methylnaphthalene | 740 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 740 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 740 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | U |
| 91-58-7 | 2-Chloronaphthalene | 740 | U |
| 88-74-4 | 2-Nitroaniline | 1800 | U |
| 131-11-3 | Dimethylphthalate | 740 | U |
| 208-96-8 | Acenaphthylene | 740 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 740 | U |
| 99-09-2 | 3-Nitroaniline | 1800 | U |
| 83-32-9 | Acenaphthene | 740 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD31

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547911

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H14.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 56 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1800 | U |
| 100-02-7 | 4-Nitrophenol | 1800 | U |
| 132-64-9 | Dibenzofuran | 740 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 740 | U |
| 84-66-2 | Diethylphthalate | 740 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 740 | U |
| 86-73-7 | Fluorene | 740 | U |
| 100-01-6 | 4-Nitroaniline | 1800 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 740 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 740 | U |
| 118-74-1 | Hexachlorobenzene | 740 | U |
| 87-86-5 | Pentachlorophenol | 1800 | U |
| 85-01-8 | Phenanthrene | 740 | U |
| 120-12-7 | Anthracene | 740 | U |
| 86-74-8 | Carbazole | 740 | U |
| 84-74-2 | Di-n-butylphthalate | 740 | U |
| 206-44-0 | Fluoranthene | 98 | J |
| 129-00-0 | Pyrene | 740 | U |
| 85-68-7 | Butylbenzylphthalate | 740 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 740 | U |
| 56-55-3 | Benzo(a)anthracene | 740 | U |
| 218-01-9 | Chrysene | 740 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 740 | U |
| 117-84-0 | Di-n-octylphthalate | 740 | U |
| 205-99-2 | Benzo(b)fluoranthene | 740 | U |
| 207-08-9 | Benzo(k)fluoranthene | 740 | U |
| 50-32-8 | Benzo(a)pyrene | 740 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 740 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 740 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 740 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD31

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547911

Sample wt/vol: 30.2 (g/mL) G Lab File ID: 0606H14.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 56 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.380 | 2500 | JB |
| 2. 57103 | Hexadecanoic acid | 22.170 | 490 | NJX |
| 3. | Unknown aldehyde | 26.560 | 450 | J |
| 4. | Unknown | 27.080 | 770 | JB |
| 5. | Unknown | 27.240 | 1100 | JB |
| 6. | Unknown alkane | 28.670 | 460 | J |
| 7. | Unknown | 28.730 | 440 | JB |
| 8. | Unknown | 29.790 | 380 | JB |
| 9. | Unknown alkane | 30.250 | 890 | J |
| 10. | Unknown | 30.500 | 470 | JB |
| 11. | Unknown alkane | 32.270 | 550 | J |
| 12. | Unknown | 32.620 | 320 | JB |
| 13. | Unknown | 32.840 | 580 | JB |
| 14. 14021239 | D-Friedoolean-14-ene, 3-meth | 35.420 | 2400 | NJ |
| 15. | Unknown | 35.590 | 320 | JB |
| 16. | Unknown | 35.840 | 570 | JB |
| 17. | Unknown | 36.690 | 740 | JB |
| 18. 1058613 | Stigmast-4-en-3-one | 36.800 | 580 | NJ |
| 19. | Unknown | 37.660 | 810 | JB |
| 20. | Unknown | 39.450 | 1200 | JB |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD32

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547909

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607813.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 480 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 480 | U |
| 95-57-8 | 2-Chlorophenol | 480 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 480 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 480 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 480 | U |
| 95-48-7 | 2-Methylphenol | 480 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 54 | J |
| 106-44-5 | 4-Methylphenol | 480 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 480 | U |
| 67-72-1 | Hexachloroethane | 480 | U |
| 98-95-3 | Nitrobenzene | 480 | U |
| 78-59-1 | Isophorone | 480 | U |
| 88-75-5 | 2-Nitrophenol | 480 | U |
| 105-67-9 | 2,4-Dimethylphenol | 480 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 480 | U |
| 120-83-2 | 2,4-Dichlorophenol | 480 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 480 | U |
| 91-20-3 | Naphthalene | 480 | U |
| 106-47-8 | 4-Chloroaniline | 480 | U |
| 87-68-3 | Hexachlorobutadiene | 480 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 480 | U |
| 91-57-6 | 2-Methylnaphthalene | 480 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 480 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 480 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1200 | U |
| 91-58-7 | 2-Chloronaphthalene | 480 | U |
| 88-74-4 | 2-Nitroaniline | 1200 | U |
| 131-11-3 | Dimethylphthalate | 480 | U |
| 208-96-8 | Acenaphthylene | 480 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 480 | U |
| 99-09-2 | 3-Nitroaniline | 1200 | U |
| 83-32-9 | Acenaphthene | 480 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD32

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547909

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607813.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1200 | U |
| 100-02-7 | 4-Nitrophenol | 1200 | U |
| 132-64-9 | Dibenzofuran | 480 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 480 | U |
| 84-66-2 | Diethylphthalate | 480 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 480 | U |
| 86-73-7 | Fluorene | 480 | U |
| 100-01-6 | 4-Nitroaniline | 1200 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1200 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 480 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 480 | U |
| 118-74-1 | Hexachlorobenzene | 480 | U |
| 87-86-5 | Pentachlorophenol | 1200 | U |
| 85-01-8 | Phenanthrene | 76 | J |
| 120-12-7 | Anthracene | 480 | U |
| 86-74-8 | Carbazole | 480 | U |
| 84-74-2 | Di-n-butylphthalate | 480 | U |
| 206-44-0 | Fluoranthene | 95 | J |
| 129-00-0 | Pyrene | 63 | J |
| 85-68-7 | Butylbenzylphthalate | 480 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 480 | U |
| 56-55-3 | Benzo(a)anthracene | 480 | U |
| 218-01-9 | Chrysene | 64 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 480 | U |
| 117-84-0 | Di-n-octylphthalate | 480 | U |
| 205-99-2 | Benzo(b)fluoranthene | 94 | J |
| 207-08-9 | Benzo(k)fluoranthene | 480 | U |
| 50-32-8 | Benzo(a)pyrene | 480 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 480 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 480 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 480 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD32

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547909

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0607813.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/08/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.290 | 1900 | J |
| 2. | Unknown alkane | 19.110 | 660 | J |
| 3. | Unknown alkane | 26.900 | 260 | J |
| 4. | Unknown alkane | 28.480 | 250 | J |
| 5. | Unknown | 29.580 | 270 | J |
| 6. | Unknown alkane | 30.030 | 480 | J |
| 7. | Unknown | 30.250 | 210 | J |
| 8. | Unknown | 31.410 | 260 | J |
| 9. | Unknown alkane | 31.960 | 290 | J |
| 10. | Unknown | 32.310 | 160 | J |
| 11. | Unknown | 32.490 | 250 | J |
| 12. | Unknown | 32.820 | 180 | J |
| 13. 14021239 | D-Friedoolean-14-ene, 3-meth | 34.950 | 1600 | NJ |
| 14. | Unknown | 35.370 | 360 | J |
| 15. | Unknown | 36.190 | 420 | J |
| 16. | Unknown | 36.260 | 340 | J |
| 17. | Unknown | 36.670 | 230 | J |
| 18. | Unknown | 37.070 | 330 | J |
| 19. | Unknown | 38.460 | 230 | J |
| 20. | Unknown | 38.800 | 240 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD33

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 82 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 5.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 9100 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 9100 | U |
| 95-57-8 | 2-Chlorophenol | 9100 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 9100 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 9100 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 9100 | U |
| 95-48-7 | 2-Methylphenol | 9100 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 9100 | U |
| 106-44-5 | 4-Methylphenol | 9100 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 9100 | U |
| 67-72-1 | Hexachloroethane | 9100 | U |
| 98-95-3 | Nitrobenzene | 9100 | U |
| 78-59-1 | Isophorone | 9100 | U |
| 88-75-5 | 2-Nitrophenol | 9100 | U |
| 105-67-9 | 2,4-Dimethylphenol | 9100 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 9100 | U |
| 120-83-2 | 2,4-Dichlorophenol | 9100 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 9100 | U |
| 91-20-3 | Naphthalene | 9100 | U |
| 106-47-8 | 4-Chloroaniline | 9100 | U |
| 87-68-3 | Hexachlorobutadiene | 9100 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 9100 | U |
| 91-57-6 | 2-Methylnaphthalene | 9100 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 9100 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 9100 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 22000 | U |
| 91-58-7 | 2-Chloronaphthalene | 9100 | U |
| 88-74-4 | 2-Nitroaniline | 22000 | U |
| 131-11-3 | Dimethylphthalate | 9100 | U |
| 208-96-8 | Acenaphthylene | 9100 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 9100 | U |
| 99-09-2 | 3-Nitroaniline | 22000 | U |
| 83-32-9 | Acenaphthene | 9100 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD33

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 82 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 5.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 22000 | U |
| 100-02-7 | 4-Nitrophenol | 22000 | U |
| 132-64-9 | Dibenzofuran | 9100 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 9100 | U |
| 84-66-2 | Diethylphthalate | 9100 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 9100 | U |
| 86-73-7 | Fluorene | 9100 | U |
| 100-01-6 | 4-Nitroaniline | 22000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 22000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 9100 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 9100 | U |
| 118-74-1 | Hexachlorobenzene | 9100 | U |
| 87-86-5 | Pentachlorophenol | 22000 | U |
| 85-01-8 | Phenanthrene | 9100 | U |
| 120-12-7 | Anthracene | 9100 | U |
| 86-74-8 | Carbazole | 9100 | U |
| 84-74-2 | Di-n-butylphthalate | 9100 | U |
| 206-44-0 | Fluoranthene | 9100 | U |
| 129-00-0 | Pyrene | 9100 | U |
| 85-68-7 | Butylbenzylphthalate | 9100 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 9100 | U |
| 56-55-3 | Benzo(a)anthracene | 9100 | U |
| 218-01-9 | Chrysene | 9100 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 4600 | J |
| 117-84-0 | Di-n-octylphthalate | 9100 | U |
| 205-99-2 | Benzo(b)fluoranthene | 9100 | U |
| 207-08-9 | Benzo(k)fluoranthene | 9100 | U |
| 50-32-8 | Benzo(a)pyrene | 9100 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 9100 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 9100 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 9100 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD33

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547912

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0610H08.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 82 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 5.8

Number TICs found: 20

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.320 | 7400 | J |
| 2. | 1,1'Biphenyl isomer, pentach | 24.150 | 11000 | J |
| 3. | Unknown | 24.290 | 42000 | J |
| 4. | Unknown | 24.570 | 30000 | J |
| 5. | 1,1'-Byphenyl isomer, pentac | 24.920 | 9800 | J |
| 6. | 1,1'-Biphenyl isomer, pentac | 25.420 | 13000 | J |
| 7. | Unknown | 26.260 | 5800 | J |
| 8. | Unknown | 26.720 | 33000 | J |
| 9. | Unknown phthalate | 26.890 | 9200 | J |
| 10. | Unknown | 26.950 | 14000 | J |
| 11. | Unknown | 27.050 | 13000 | J |
| 12. | Unknown | 27.940 | 8700 | J |
| 13. | Unknown | 28.190 | 8800 | J |
| 14. | Unknown | 28.280 | 10000 | J |
| 15. | Unknown | 30.500 | 5900 | J |
| 16. | Unknown | 32.060 | 7300 | J |
| 17. | Unknown | 34.020 | 7300 | J |
| 18. | Unknown | 36.900 | 8200 | J |
| 19. | Unknown | 38.960 | 6400 | J |
| 20. | Unknown | 39.490 | 78000 | J |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD34

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547915

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 530 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 530 | U |
| 95-57-8 | 2-Chlorophenol | 530 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 530 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 530 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 530 | U |
| 95-48-7 | 2-Methylphenol | 530 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 530 | U |
| 106-44-5 | 4-Methylphenol | 530 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 530 | U |
| 67-72-1 | Hexachloroethane | 530 | U |
| 98-95-3 | Nitrobenzene | 530 | U |
| 78-59-1 | Isophorone | 530 | U |
| 88-75-5 | 2-Nitrophenol | 530 | U |
| 105-67-9 | 2,4-Dimethylphenol | 530 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 530 | U |
| 120-83-2 | 2,4-Dichlorophenol | 530 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 530 | U |
| 91-20-3 | Naphthalene | 530 | U |
| 106-47-8 | 4-Chloroaniline | 530 | U |
| 87-68-3 | Hexachlorobutadiene | 530 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 530 | U |
| 91-57-6 | 2-Methylnaphthalene | 530 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 530 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 530 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1300 | U |
| 91-58-7 | 2-Chloronaphthalene | 530 | U |
| 88-74-4 | 2-Nitroaniline | 1300 | U |
| 131-11-3 | Dimethylphthalate | 530 | U |
| 208-96-8 | Acenaphthylene | 530 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 530 | U |
| 99-09-2 | 3-Nitroaniline | 1300 | U |
| 83-32-9 | Acenaphthene | 530 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD34

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547915

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1300 | U |
| 100-02-7 | 4-Nitrophenol | 1300 | U |
| 132-64-9 | Dibenzofuran | 530 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 530 | U |
| 84-66-2 | Diethylphthalate | 530 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 530 | U |
| 86-73-7 | Fluorene | 530 | U |
| 100-01-6 | 4-Nitroaniline | 1300 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1300 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 530 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 530 | U |
| 118-74-1 | Hexachlorobenzene | 530 | U |
| 87-86-5 | Pentachlorophenol | 1300 | U |
| 85-01-8 | Phenanthrene | 530 | U |
| 120-12-7 | Anthracene | 530 | U |
| 86-74-8 | Carbazole | 530 | U |
| 84-74-2 | Di-n-butylphthalate | 530 | U |
| 206-44-0 | Fluoranthene | 530 | U |
| 129-00-0 | Pyrene | 530 | U |
| 85-68-7 | Butylbenzylphthalate | 530 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 530 | U |
| 56-55-3 | Benzo(a)anthracene | 530 | U |
| 218-01-9 | Chrysene | 530 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 530 | U |
| 117-84-0 | Di-n-octylphthalate | 530 | U |
| 205-99-2 | Benzo(b)fluoranthene | 530 | U |
| 207-08-9 | Benzo(k)fluoranthene | 530 | U |
| 50-32-8 | Benzo(a)pyrene | 530 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 530 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 530 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 530 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD34

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547915

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0606H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 38 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/07/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7

Number TICs found: 11

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.390 | 2000 | J |
| 2. | 57103 | Hexadecanoic acid | 22.150 | 110 | NJ |
| 3. | | Unknown | 26.720 | 400 | J |
| 4. | | Unknown | 27.060 | 140 | J |
| 5. | | Unknown alkane | 28.650 | 170 | J |
| 6. | | Unknown alkane | 28.710 | 110 | J |
| 7. | | Unknown | 29.420 | 170 | J |
| 8. | | Unknown amide | 35.350 | 200 | J |
| 9. | | Unknown | 37.570 | 130 | J |
| 10. | | Unknown | 37.820 | 320 | J |
| 11. | | Unknown | 39.390 | 200 | J |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD35

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0610H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 850 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 850 | U |
| 95-57-8 | 2-Chlorophenol | 850 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 850 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 850 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 850 | U |
| 95-48-7 | 2-Methylphenol | 850 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 850 | U |
| 106-44-5 | 4-Methylphenol | 110 | J |
| 621-64-7 | N-Nitroso-di-n-propylamine | 850 | U |
| 67-72-1 | Hexachloroethane | 850 | U |
| 98-95-3 | Nitrobenzene | 850 | U |
| 78-59-1 | Isophorone | 850 | U |
| 88-75-5 | 2-Nitrophenol | 850 | U |
| 105-67-9 | 2,4-Dimethylphenol | 850 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 850 | U |
| 120-83-2 | 2,4-Dichlorophenol | 850 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 850 | U |
| 91-20-3 | Naphthalene | 850 | U |
| 106-47-8 | 4-Chloroaniline | 850 | U |
| 87-68-3 | Hexachlorobutadiene | 850 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 850 | U |
| 91-57-6 | 2-Methylnaphthalene | 850 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 850 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 850 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 850 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 850 | U |
| 208-96-8 | Acenaphthylene | 850 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 850 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| 83-32-9 | Acenaphthene | 850 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SD35

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0610H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 850 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 850 | U |
| 84-66-2 | Diethylphthalate | 850 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 850 | U |
| 86-73-7 | Fluorene | 850 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 850 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 850 | U |
| 118-74-1 | Hexachlorobenzene | 850 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| 85-01-8 | Phenanthrene | 850 | U |
| 120-12-7 | Anthracene | 69 | J |
| 86-74-8 | Carbazole | 850 | U |
| 84-74-2 | Di-n-butylphthalate | 850 | U |
| 206-44-0 | Fluoranthene | 140 | J |
| 129-00-0 | Pyrene | 140 | J |
| 85-68-7 | Butylbenzylphthalate | 850 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 850 | U |
| 56-55-3 | Benzo(a)anthracene | 850 | U |
| 218-01-9 | Chrysene | 150 | J |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 540 | J |
| 117-84-0 | Di-n-octylphthalate | 850 | U |
| 205-99-2 | Benzo(b)fluoranthene | 220 | J |
| 207-08-9 | Benzo(k)fluoranthene | 850 | U |
| 50-32-8 | Benzo(a)pyrene | 130 | J |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 100 | J |
| 53-70-3 | Dibenz(a,h)anthracene | 850 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 850 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SD35

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: 960547913

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0610H10.D

Level: (low/med) LOW Date Received: 05/22/96

% Moisture: 61 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/11/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 20

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 7.370 | 2800 | J |
| 2. | 57103 | Hexadecanoic acid | 22.240 | 1500 | NJ |
| 3. | | 1,1'-Biphnyl isomer, pentach | 24.170 | 1400 | J |
| 4. | | Unknown | 24.520 | 7500 | J |
| 5. | | 1,1'-Biphenyl isomer, pentac | 24.940 | 1200 | J |
| 6. | | 1,1'-Biphenyl isomer, hexach | 25.400 | 1000 | J |
| 7. | | 1,1'-Biphenyl isomer, hexach | 25.880 | 940 | J |
| 8. | | Unknown alkane | 27.130 | 1100 | J |
| 9. | | Unknown | 27.950 | 1000 | J |
| 10. | | Unknown | 28.060 | 960 | J |
| 11. | | Unknown | 28.120 | 1000 | J |
| 12. | | Unknown | 28.190 | 1200 | J |
| 13. | | Unknown | 28.300 | 960 | J |
| 14. | | Unknown alkane | 28.710 | 1200 | J |
| 15. | | Unknown alkane | 30.320 | 1100 | J |
| 16. | | Unknown alkane | 32.340 | 1000 | J |
| 17. | | Unknown | 33.260 | 1100 | J |
| 18. | | Unknown | 36.970 | 2200 | J |
| 19. | | Unknown | 38.990 | 1100 | J |
| 20. | | Unknown | 39.550 | 5500 | J |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Level:(low/med) LOW

| | CLIENT SAMPLE NO. | S1 (NBZ)# | S2 (FPB)# | S3 (TPH)# | S4 (PHL)# | S5 (2FP)# | S6 (TBP)# | S7 (2CP)# | S8 (DCB)# | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|
| 01 | SBLK05 | 81 | 77 | 73 | 84 | 86 | 78 | 82 | 81 | 0 |
| 02 | SD29 | 67 | 68 | 65 | 76 | 75 | 70 | 73 | 65 | 0 |
| 03 | SD2991 | 67 | 70 | 71 | 75 | 75 | 76 | 74 | 65 | 0 |
| 04 | SD19 | 86 | 81 | 72 | 94 | 96 | 79 | 92 | 82 | 0 |
| 05 | SD34 | 84 | 80 | 68 | 92 | 93 | 78 | 89 | 82 | 0 |
| 06 | SD27 | 88 | 83 | 74 | 96 | 98 | 79 | 94 | 86 | 0 |
| 07 | SD17 | 82 | 80 | 72 | 91 | 95 | 73 | 90 | 82 | 0 |
| 08 | SD31 | 84 | 80 | 74 | 90 | 92 | 75 | 88 | 79 | 0 |
| 09 | SD26 | 83 | 80 | 80 | 90 | 92 | 76 | 87 | 79 | 0 |
| 10 | SD18 | 80 | 76 | 65 | 94 | 97 | 78 | 90 | 80 | 0 |
| 11 | SD20 | 13* | 15* | 15* | 17* | 16* | 17* | 16* | 14* | 8 |
| 12 | SD21 | 80 | 77 | 74 | 96 | 97 | 78 | 94 | 83 | 0 |
| 13 | SD23 | 74 | 70 | 70 | 85 | 87 | 73 | 82 | 72 | 0 |
| 14 | SD22 | 70 | 68 | 76 | 83 | 84 | 73 | 82 | 70 | 0 |
| 15 | SD2291 | 72 | 65 | 68 | 84 | 86 | 70 | 81 | 69 | 0 |
| 16 | SD29MS | 80 | 75 | 70 | 93 | 98 | 77 | 89 | 78 | 0 |
| 17 | SD29MSD | 65 | 64 | 65 | 81 | 81 | 71 | 78 | 65 | 0 |
| 18 | SD32 | 83 | 75 | 69 | 100 | 104 | 75 | 97 | 82 | 0 |
| 19 | SD1891 | 79 | 72 | 65 | 99 | 100 | 75 | 93 | 79 | 0 |
| 20 | SD30 | 80 | 76 | 72 | 97 | 97 | 78 | 93 | 80 | 0 |
| 21 | SD33 | 82 | 90 | 109 | 92 | 84 | 101 | 88 | 82 | 0 |
| 22 | SD28 | 84 | 74 | 79 | 93 | 92 | 73 | 88 | 81 | 0 |
| 23 | SD35 | 73 | 66 | 74 | 81 | 79 | 68 | 76 | 66 | 0 |
| 24 | SBLK27 | 83 | 80 | 68 | 96 | 96 | 68 | 93 | 79 | 0 |
| 25 | SD20RE | 66 | 68 | 62 | 75 | 76 | 68 | 74 | 64 | 0 |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

| | | QC LIMITS | |
|---|---|---|---|
| S1 (NBZ) | = Nitrobenzene-d5 | (23-120) | |
| S2 (FPB) | = 2-Fluorobiphenyl | (30-115) | |
| S3 (TPH) | = Terphenyl-d14 | (18-137) | |
| S4 (PHL) | = Phenol-d5 | (24-113) | |
| S5 (2FP) | = 2-Fluorophenol | (25-121) | |
| S6 (TBP) | = 2,4,6-Tribromophenol | (19-122) | |
| S7 (2CP) | = 2-Chlorophenol-d4 | (20-130) | (advisory) |
| S8 (DCB) | = 1,2-Dichlorobenzene-d4 | (20-130) | (advisory) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

# SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix Spike - CLIENT Sample No.: SD29 Level(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Phenol | 3400 | 0 | 3100 | 91* | 26- 90 |
| 2-Chlorophenol | 3400 | 0 | 3000 | 88 | 25-102 |
| 1,4-Dichlorobenzene | 2200 | 0 | 1600 | 73 | 28-104 |
| N-Nitroso-di-n-prop.(1) | 2200 | 0 | 1800 | 82 | 41-126 |
| 1,2,4-Trichlorobenzene | 2200 | 0 | 1700 | 77 | 38-107 |
| 4-Chloro-3-methylphenol | 3400 | 0 | 3000 | 88 | 26-103 |
| Acenaphthene | 2200 | 0 | 1800 | 82 | 31-137 |
| 4-Nitrophenol | 3400 | 0 | 3300 | 97 | 11-114 |
| 2,4-Dinitrotoluene | 2200 | 0 | 1800 | 82 | 28- 89 |
| Pentachlorophenol | 3400 | 0 | 2700 | 79 | 17-109 |
| Pyrene | 2200 | 0 | 1600 | 73 | 35-142 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| Phenol | 3400 | 2700 | 79 | 14 | 35 | 26- 90 |
| 2-Chlorophenol | 3400 | 2600 | 76 | 15 | 50 | 25-102 |
| 1,4-Dichlorobenzene | 2200 | 1400 | 64 | 13 | 27 | 28-104 |
| N-Nitroso-di-n-prop.(1) | 2200 | 1500 | 68 | 19 | 38 | 41-126 |
| 1,2,4-Trichlorobenzene | 2200 | 1400 | 64 | 18 | 23 | 38-107 |
| 4-Chloro-3-methylphenol | 3400 | 2700 | 79 | 11 | 33 | 26-103 |
| Acenaphthene | 2200 | 1500 | 68 | 19 | 19 | 31-137 |
| 4-Nitrophenol | 3400 | 3000 | 88 | 10 | 50 | 11-114 |
| 2,4-Dinitrotoluene | 2200 | 1600 | 73 | 12 | 47 | 28- 89 |
| Pentachlorophenol | 3400 | 2400 | 70 | 12 | 47 | 17-109 |
| Pyrene | 2200 | 1500 | 68 | 7 | 36 | 35-142 |

(1) N-Nitroso-di-n-propylamine

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK05

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0606H02.D Lab Sample ID: SBLK05

Instrument ID: MSD8 Date Extracted: 05/24/96

Matrix: (soil/water) SOIL Date Analyzed: 06/06/96

Level:(low/med) LOW Time Analyzed: 2310

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | SD29 | 960547901 | 0606H04.D | 06/07/96 |
| 02 | SD2991 | 960547902 | 0606H05.D | 06/07/96 |
| 03 | SD19 | 960547914 | 0606H08.D | 06/07/96 |
| 04 | SD34 | 960547915 | 0606H10.D | 06/07/96 |
| 05 | SD27 | 960547907 | 0606H11.D | 06/07/96 |
| 06 | SD17 | 960547910 | 0606H12.D | 06/07/96 |
| 07 | SD31 | 960547911 | 0606H14.D | 06/07/96 |
| 08 | SD26 | 960547906 | 0606H15.D | 06/07/96 |
| 09 | SD18 | 960547904 | 0607802.D | 06/07/96 |
| 10 | SD20 | 960547917 | 0607803.D | 06/07/96 |
| 11 | SD21 | 960547916 | 0607804.D | 06/07/96 |
| 12 | SD23 | 960547920 | 0607805.D | 06/07/96 |
| 13 | SD22 | 960547919 | 0607806.D | 06/07/96 |
| 14 | SD2291 | 960547918 | 0607807.D | 06/07/96 |
| 15 | SD29MS | 960547901MS | 0607809.D | 06/08/96 |
| 16 | SD29MSD | 960547901MSD | 0607810.D | 06/08/96 |
| 17 | SD32 | 960547909 | 0607813.D | 06/08/96 |
| 18 | SD1891 | 960547905 | 0607814.D | 06/08/96 |
| 19 | SD30 | 960547903 | 0607815.D | 06/08/96 |
| 20 | SD33 | 960547912 | 0610H08.D | 06/11/96 |
| 21 | SD28 | 960547908 | 0610H09.D | 06/11/96 |
| 22 | SD35 | 960547913 | 0610H10.D | 06/11/96 |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK05

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H02.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/06/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 330 | U |
| 95-57-8 | 2-Chlorophenol | 330 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7 | 2-Methylphenol | 330 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5 | 4-Methylphenol | 330 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 330 | U |
| 67-72-1 | Hexachloroethane | 330 | U |
| 98-95-3 | Nitrobenzene | 330 | U |
| 78-59-1 | Isophorone | 330 | U |
| 88-75-5 | 2-Nitrophenol | 330 | U |
| 105-67-9 | 2,4-Dimethylphenol | 330 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 330 | U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3 | Naphthalene | 330 | U |
| 106-47-8 | 4-Chloroaniline | 330 | U |
| 87-68-3 | Hexachlorobutadiene | 330 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | U |
| 91-57-6 | 2-Methylnaphthalene | 330 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 800 | U |
| 91-58-7 | 2-Chloronaphthalene | 330 | U |
| 88-74-4 | 2-Nitroaniline | 800 | U |
| 131-11-3 | Dimethylphthalate | 330 | U |
| 208-96-8 | Acenaphthylene | 330 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2 | 3-Nitroaniline | 800 | U |
| 83-32-9 | Acenaphthene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK05

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H02.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/06/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 800 | U |
| 100-02-7 | 4-Nitrophenol | 800 | U |
| 132-64-9 | Dibenzofuran | 330 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2 | Diethylphthalate | 330 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7 | Fluorene | 330 | U |
| 100-01-6 | 4-Nitroaniline | 800 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330 | U |
| 118-74-1 | Hexachlorobenzene | 330 | U |
| 87-86-5 | Pentachlorophenol | 800 | U |
| 85-01-8 | Phenanthrene | 330 | U |
| 120-12-7 | Anthracene | 330 | U |
| 86-74-8 | Carbazole | 330 | U |
| 84-74-2 | Di-n-butylphthalate | 330 | U |
| 206-44-0 | Fluoranthene | 330 | U |
| 129-00-0 | Pyrene | 330 | U |
| 85-68-7 | Butylbenzylphthalate | 330 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3 | Benzo(a)anthracene | 330 | U |
| 218-01-9 | Chrysene | 330 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330 | U |
| 117-84-0 | Di-n-octylphthalate | 330 | U |
| 205-99-2 | Benzo(b)fluoranthene | 330 | U |
| 207-08-9 | Benzo(k)fluoranthene | 330 | U |
| 50-32-8 | Benzo(a)pyrene | 330 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 330 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK05

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0606H02.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/06/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.380 | 1300 | J |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

4B
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID: 0618803.D Lab Sample ID: SBLK27

Instrument ID: MSD8 Date Extracted: 06/13/96

Matrix: (soil/water) SOIL Date Analyzed: 06/18/96

Level:(low/med) LOW Time Analyzed: 2208

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|---|
| 01 | SD20RE | 960547917RE | 0618806.D | 06/19/96 |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK27

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0618803.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 06/13/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/18/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 330 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 330 | U |
| 95-57-8 | 2-Chlorophenol | 330 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7 | 2-Methylphenol | 330 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5 | 4-Methylphenol | 330 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 330 | U |
| 67-72-1 | Hexachloroethane | 330 | U |
| 98-95-3 | Nitrobenzene | 330 | U |
| 78-59-1 | Isophorone | 330 | U |
| 88-75-5 | 2-Nitrophenol | 330 | U |
| 105-67-9 | 2,4-Dimethylphenol | 330 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 330 | U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3 | Naphthalene | 330 | U |
| 106-47-8 | 4-Chloroaniline | 330 | U |
| 87-68-3 | Hexachlorobutadiene | 330 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | U |
| 91-57-6 | 2-Methylnaphthalene | 330 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 800 | U |
| 91-58-7 | 2-Chloronaphthalene | 330 | U |
| 88-74-4 | 2-Nitroaniline | 800 | U |
| 131-11-3 | Dimethylphthalate | 330 | U |
| 208-96-8 | Acenaphthylene | 330 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2 | 3-Nitroaniline | 800 | U |
| 83-32-9 | Acenaphthene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK27

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0618803.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 06/13/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/18/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 800 | U |
| 100-02-7 | 4-Nitrophenol | 800 | U |
| 132-64-9 | Dibenzofuran | 330 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2 | Diethylphthalate | 330 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7 | Fluorene | 330 | U |
| 100-01-6 | 4-Nitroaniline | 800 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 800 | U |
| 86-30-6 | N-Nitrosodiphenylamine (1) | 330 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 330 | U |
| 118-74-1 | Hexachlorobenzene | 330 | U |
| 87-86-5 | Pentachlorophenol | 800 | U |
| 85-01-8 | Phenanthrene | 330 | U |
| 120-12-7 | Anthracene | 330 | U |
| 86-74-8 | Carbazole | 330 | U |
| 84-74-2 | Di-n-butylphthalate | 330 | U |
| 206-44-0 | Fluoranthene | 330 | U |
| 129-00-0 | Pyrene | 330 | U |
| 85-68-7 | Butylbenzylphthalate | 330 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3 | Benzo(a)anthracene | 330 | U |
| 218-01-9 | Chrysene | 330 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 330 | U |
| 117-84-0 | Di-n-octylphthalate | 330 | U |
| 205-99-2 | Benzo(b)fluoranthene | 330 | U |
| 207-08-9 | Benzo(k)fluoranthene | 330 | U |
| 50-32-8 | Benzo(a)pyrene | 330 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 330 | U |
| 53-70-3 | Dibenz(a,h)anthracene | 330 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 330 | U |

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK27

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Matrix: (soil/water) SOIL Lab Sample ID: SBLK27

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0618803.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 06/13/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 06/18/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

Number TICs found: 9

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | Unknown | 7.150 | 1600 | J |
| 2. | Unknown | 10.010 | 230 | J |
| 3. | Unknown | 10.730 | 140 | J |
| 4. | Unknown | 10.900 | 200 | J |
| 5. | Unknown | 11.580 | 360 | J |
| 6. | Unknown | 27.480 | 94 | J |
| 7. | Unknown | 28.800 | 170 | J |
| 8. | Unknown | 29.080 | 82 | J |
| 9. | Unknown | 29.500 | 90 | J |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0606H01.D Date Analyzed: 06/06/96

Instrument ID: MSD8 Time Analyzed: 2208

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 493123 | 9.26 | 2349909 | 12.36 | 1686680 | 16.84 |
| | UPPER LIMIT | 986246 | 9.76 | 4699818 | 12.86 | 3373360 | 17.34 |
| | LOWER LIMIT | 246562 | 8.76 | 1174954 | 11.86 | 843340 | 16.34 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SBLK05 | 345339 | 9.26 | 1567209 | 12.36 | 1142163 | 16.84 |
| 02 | SD29 | 351678 | 9.25 | 1665880 | 12.35 | 1254548 | 16.83 |
| 03 | SD2991 | 348531 | 9.26 | 1648787 | 12.35 | 1217323 | 16.83 |
| 04 | SD19 | 355273 | 9.26 | 1671034 | 12.35 | 1221385 | 16.83 |
| 05 | SD34 | 369310 | 9.26 | 1758349 | 12.35 | 1285966 | 16.83 |
| 06 | SD27 | 349483 | 9.25 | 1676230 | 12.34 | 1235102 | 16.83 |
| 07 | SD17 | 337347 | 9.25 | 1644636 | 12.34 | 1197260 | 16.83 |
| 08 | SD31 | 370416 | 9.25 | 1744025 | 12.34 | 1246195 | 16.83 |
| 09 | SD26 | 364865 | 9.25 | 1707216 | 12.34 | 1239224 | 16.83 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0606H01.D Date Analyzed: 06/06/96

Instrument ID: MSD8 Time Analyzed: 2208

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3614870 | 20.58 | 2913170 | 27.42 | 3728482 | 31.11 |
| | UPPER LIMIT | 7229740 | 21.08 | 5826340 | 27.92 | 7456964 | 31.61 |
| | LOWER LIMIT | 1807435 | 20.08 | 1456585 | 26.92 | 1864241 | 30.61 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SBLK05 | 2461735 | 20.58 | 2488374 | 27.40 | 2749735 | 31.09 |
| 02 | SD29 | 2534065 | 20.58 | 2442904 | 27.39 | 2559248 | 31.10 |
| 03 | SD2991 | 2460387 | 20.58 | 2282506 | 27.40 | 2444325 | 31.11 |
| 04 | SD19 | 2517147 | 20.58 | 2352979 | 27.39 | 2550788 | 31.09 |
| 05 | SD34 | 2604722 | 20.58 | 2473407 | 27.40 | 2704213 | 31.09 |
| 06 | SD27 | 2478134 | 20.58 | 2258090 | 27.40 | 2409759 | 31.10 |
| 07 | SD17 | 2312883 | 20.57 | 2090961 | 27.40 | 2261454 | 31.10 |
| 08 | SD31 | 2434356 | 20.58 | 2062290 | 27.40 | 2261717 | 31.11 |
| 09 | SD26 | 2383745 | 20.58 | 1853550 | 27.42 | 1905662 | 31.14 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0607801.D Date Analyzed: 06/07/96

Instrument ID: MSD8 Time Analyzed: 1743

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 393226 | 9.13 | 2026310 | 12.21 | 1532081 | 16.67 |
| | UPPER LIMIT | 786452 | 9.63 | 4052620 | 12.71 | 3064162 | 17.17 |
| | LOWER LIMIT | 196613 | 8.63 | 1013155 | 11.71 | 766040 | 16.17 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SD18 | 266072 | 9.14 | 1335240 | 12.22 | 1061128 | 16.67 |
| 02 | SD20 | 259348 | 9.14 | 1337579 | 12.22 | 1098895 | 16.68 |
| 03 | SD21 | 267030 | 9.14 | 1447193 | 12.22 | 1146737 | 16.67 |
| 04 | SD23 | 285274 | 9.14 | 1478213 | 12.21 | 1186331 | 16.67 |
| 05 | SD22 | 267361 | 9.14 | 1407329 | 12.22 | 1141978 | 16.67 |
| 06 | SD2291 | 268457 | 9.15 | 1404171 | 12.22 | 1165629 | 16.67 |
| 07 | SD29MS | 286091 | 9.15 | 1489968 | 12.22 | 1180221 | 16.69 |
| 08 | SD29MSD | 272668 | 9.15 | 1477146 | 12.22 | 1181838 | 16.69 |
| 09 | SD32 | 268506 | 9.15 | 1415112 | 12.23 | 1122537 | 16.69 |
| 10 | SD1891 | 250338 | 9.15 | 1367536 | 12.23 | 1097743 | 16.69 |
| 11 | SD30 | 275422 | 9.15 | 1492754 | 12.23 | 1144676 | 16.69 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0607801.D Date Analyzed: 06/07/96

Instrument ID: MSD8 Time Analyzed: 1743

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3384732 | 20.40 | 2674694 | 27.20 | 3607462 | 30.80 |
| | UPPER LIMIT | 6769464 | 20.90 | 5349388 | 27.70 | 7214924 | 31.30 |
| | LOWER LIMIT | 1692366 | 19.90 | 1337347 | 26.70 | 1803731 | 30.30 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SD18 | 2334850 | 20.40 | 2397783 | 27.18 | 2646599 | 30.79 |
| 02 | SD20 | 2414418 | 20.40 | 2483013 | 27.18 | 2734029 | 30.79 |
| 03 | SD21 | 2472358 | 20.40 | 1831185 | 27.21 | 1959530 | 30.85 |
| 04 | SD23 | 2428370 | 20.40 | 2007530 | 27.20 | 2162035 | 30.83 |
| 05 | SD22 | 2382775 | 20.40 | 1780345 | 27.22 | 2033305 | 30.86 |
| 06 | SD2291 | 2408024 | 20.40 | 2012459 | 27.21 | 2169721 | 30.85 |
| 07 | SD29MS | 2421999 | 20.42 | 2186308 | 27.20 | 2214422 | 30.82 |
| 08 | SD29MSD | 2470446 | 20.42 | 2177267 | 27.20 | 2205756 | 30.83 |
| 09 | SD32 | 2319602 | 20.43 | 2104810 | 27.22 | 1971718 | 30.84 |
| 10 | SD1891 | 2282862 | 20.42 | 2203326 | 27.21 | 2023085 | 30.82 |
| 11 | SD30 | 2366267 | 20.43 | 2080945 | 27.21 | 1856918 | 30.83 |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0610H01.D Date Analyzed: 06/10/96

Instrument ID: MSD8 Time Analyzed: 1836

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 414904 | 9.25 | 1993744 | 12.36 | 1452964 | 16.84 |
| | UPPER LIMIT | 829808 | 9.75 | 3987488 | 12.86 | 2905928 | 17.34 |
| | LOWER LIMIT | 207452 | 8.75 | 996872 | 11.86 | 726482 | 16.34 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SD33 | 354339 | 9.25 | 1731048 | 12.34 | 1273578 | 16.84 |
| 02 | SD28 | 359546 | 9.26 | 1772670 | 12.35 | 1328796 | 16.84 |
| 03 | SD35 | 375911 | 9.26 | 1866075 | 12.35 | 1382102 | 16.84 |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0610H01.D Date Analyzed: 06/10/96

Instrument ID: MSD8 Time Analyzed: 1836

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3077280 | 20.60 | 2621483 | 27.44 | 3301241 | 31.15 |
| | UPPER LIMIT | 6154560 | 21.10 | 5242966 | 27.94 | 6602482 | 31.65 |
| | LOWER LIMIT | 1538640 | 20.10 | 1310742 | 26.94 | 1650620 | 30.65 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SD33 | 2585810 | 20.59 | 1939101 | 27.45 | 2113964 | 31.18 |
| 02 | SD28 | 2607733 | 20.60 | 1937574 | 27.44 | 2153193 | 31.19 |
| 03 | SD35 | 2637709 | 20.60 | 1843602 | 27.46 | 1876628 | 31.21 |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0618801.D Date Analyzed: 06/18/96

Instrument ID: MSD8 Time Analyzed: 2009

| | | IS1(DCB) AREA # | RT # | IS2(NPT) AREA # | RT # | IS3(ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 345147 | 9.00 | 1872215 | 12.08 | 1502634 | 16.54 |
| | UPPER LIMIT | 690294 | 9.50 | 3744430 | 12.58 | 3005268 | 17.04 |
| | LOWER LIMIT | 172574 | 8.50 | 936108 | 11.58 | 751317 | 16.04 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SBLK27 | 408794 | 9.00 | 2090900 | 12.07 | 1525268 | 16.53 |
| 02 | SD20RE | 399613 | 9.00 | 2028151 | 12.07 | 1488996 | 16.53 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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

Lab Code: IEA Case No.: 1589-161 SDG No.: 05479

Lab File ID (Standard): 0618801.D Date Analyzed: 06/18/96

Instrument ID: MSD8 Time Analyzed: 2009

| | | IS4(PHN) AREA # | RT # | IS5(CRY) AREA # | RT # | IS6(PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 3343555 | 20.27 | 2672125 | 27.07 | 3595126 | 30.64 |
| | UPPER LIMIT | 6687110 | 20.77 | 5344250 | 27.57 | 7190252 | 31.14 |
| | LOWER LIMIT | 1671778 | 19.77 | 1336062 | 26.57 | 1797563 | 30.14 |
| | CLIENT SAMPLE No. | | | | | | |
| 01 | SBLK27 | 3061208 | 20.25 | 2687676 | 27.04 | 2805801 | 30.61 |
| 02 | SD20RE | 3026131 | 20.26 | 2706822 | 27.05 | 2732099 | 30.64 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

TABLE GC-1.0 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | Method Blank | APD-SD29-01 | APD-SD29-01 MS | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 052896-B07 | 960962A-01 | 960962A-01MS | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 1.00 | 2.70 | 1.35 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | U | 180 | 140P | 33 |
| Aroclor-1254 | U | 380P | 420P | 33 |
| Aroclor-1260 | U | 330P | 540X | 33 |
| Date Received | | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/11/96 | 06/12/96 | 06/11/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.1 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD29-01 MSD | APD-SD29-91 | APD-SD30-01 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-01 MSD | 960962A-02 | 960962A-03 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 1.35 | 1.63 | 2.12 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | 63.P | 84.P | 74.P | 33 |
| Aroclor-1254 | 330P | 450P | 570P | 33 |
| Aroclor-1260 | 480PX | 570P | 390 | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/11/96 | 06/11/96 | 06/11/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.2 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD18-01 | APD-SD18-91 | APD-SD26-01 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-04 | 960962A-05 | 960962A-06 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 1.55 | 1.60 | 11.9 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | U | U | 320JP | 33 |
| Aroclor-1254 | U | U | 1700 | 33 |
| Aroclor-1260 | U | U | 1900 | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/11/96 | 06/11/96 | 06/12/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.3 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD27-01 | APD-SD28-01 | APD-SD32-01 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-07 | 960962A-08 | 960962A-09 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 2.17 | 10.8 | 1.46 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | 48.J | 220J | 35.JP | 33 |
| Aroclor-1254 | 190P | 1200 | 79.P | 33 |
| Aroclor-1260 | 270P | 970P | 73. | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/11/96 | 06/13/96 | 06/12/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.4 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD17-01 | APD-SD31-01 | APD-SD33-01 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-10 | 960962A-11 | 960962A-12 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 2.56 | 2.26 | 278. | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | 58.JP | 61.JP | 27000P | 33 |
| Aroclor-1254 | 150P | 600 | 63000P | 33 |
| Aroclor-1260 | 140 | 240P | 35000 | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/13/96 | 06/13/96 | 06/13/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.5 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD35-01 | APD-SD19-01 | APD-SD34-01 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-13 | 960962A-14 | 960962A-15 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 128. | 1.58 | 1.60 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | 2700JP | 13.JP | U | 33 |
| Aroclor-1254 | 8100P | 36.JP | 14.JP | 33 |
| Aroclor-1260 | 6200P | 16.JP | 13.JP | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/13/96 | 06/11/96 | 06/14/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.6 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD21-01 | APD-SD20-01 | APD-SD22-91 | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-16 | 960962A-17 | 960962A-18 | |
| Method Blank I.D. | PBLK90 | PBLK90 | PBLK90 | |
| Dilution Factor | 62.3 | 4.53 | 16.1 | |
| Aroclor-1016 | U | U | U | 33 |
| Aroclor-1221 | U | U | U | 67 |
| Aroclor-1232 | U | U | U | 33 |
| Aroclor-1242 | U | U | U | 33 |
| Aroclor-1248 | 1300JP | U | 270JP | 33 |
| Aroclor-1254 | 8700 | 79.J | 1800 | 33 |
| Aroclor-1260 | 3100P | 180P | 830 | 33 |
| Date Received | 05/22/96 | 05/22/96 | 05/22/96 | |
| Date Extracted | 05/28/96 | 05/28/96 | 05/28/96 | |
| Date Analyzed | 06/13/96 | 06/11/96 | 06/13/96 | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

TABLE GC-1.7 Soil
7096-0962A
IEA/NC
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/Kg dry weight basis.

| Client Sample I.D. | APD-SD22-01 | APD-SD23-01 | | Quant. Limits with no Dilution |
|---|---|---|---|---|
| Lab Sample I.D. | 960962A-19 | 960962A-20 | | |
| Method Blank I.D. | PBLK90 | PBLK90 | | |
| Dilution Factor | 41.6 | 25.5 | | |
| Aroclor-1016 | U | U | | 33 |
| Aroclor-1221 | U | U | | 67 |
| Aroclor-1232 | U | U | | 33 |
| Aroclor-1242 | U | U | | 33 |
| Aroclor-1248 | 560JP | 770JP | | 33 |
| Aroclor-1254 | 3600 | 4000 | | 33 |
| Aroclor-1260 | 1700 | 1900 | | 33 |
| Date Received | 05/22/96 | 05/22/96 | | |
| Date Extracted | 05/28/96 | 05/28/96 | | |
| Date Analyzed | 06/13/96 | 06/13/96 | | |

See Appendix for qualifier definitions
Note: Compound detection limit = quantitation limit x dilution factor

## ORGANICS APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

## STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the IEA-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

**IEA-Connecticut**
**Certification Summary (as of February 1996)**

| State | Responsible Agency | Certification | Lab Number |
|---|---|---|---|
| California | Department of Health Services | Hazardous Waste | 1778 |
| Connecticut | Department of Health Services | Drinking Water, Wastewater | PH-0497 |
| Kansas | Department of Health and Environmental Services | Drinking Water, Wastewater/Solid, Hazardous Waste | E-210/E-1185 |
| Massachusetts | Department of Environmental Protection | Potable/Non-Potable Water | CT023 |
| New Hampshire | Department of Environmental Services | Drinking Water, Wastewater | 252891 |
| New Jersey | Department of Environmental Protection | Drinking Water, Wastewater | 46410 |
| New York | Department of Health | CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste | 10602 |
| North Carolina | Division of Environmental Management | Wastewater | 388 |
| North Dakota | Department of Health and Consolidated Laboratories | Non-Potable/Potable Hazardous Waste | R-138 |
| Rhode Island | Department of Health | Chemistry...Non-Potable Water and Wastewater | A43 |
| Washington | Department of Ecology | Wastewater/ Hazardous Waste | C231 |

7096-0962A
IEA/NC
**SAMPLE SUMMARY**

| CLIENT ID | LAB ID | MATRIX | DATE COLLECTED | DATE RECEIVED |
|---|---|---|---|---|
| APD-SD29-01 | 960962A-01 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD29-01 | 960962A-01MS | SOIL | 05/21/96 | 05/22/96 |
| APD-SD29-01 | 960962A-01MSD | SOIL | 05/21/96 | 05/22/96 |
| APD-SD29-91 | 960962A-02 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD30-01 | 960962A-03 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD18-01 | 960962A-04 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD18-91 | 960962A-05 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD26-01 | 960962A-06 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD27-01 | 960962A-07 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD28-01 | 960962A-08 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD32-01 | 960962A-09 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD17-01 | 960962A-10 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD31-01 | 960962A-11 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD33-01 | 960962A-12 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD35-01 | 960962A-13 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD19-01 | 960962A-14 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD34-01 | 960962A-15 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD21-01 | 960962A-16 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD20-01 | 960962A-17 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD22-91 | 960962A-18 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD22-01 | 960962A-19 | SOIL | 05/21/96 | 05/22/96 |
| APD-SD23-01 | 960962A-20 | SOIL | 05/21/96 | 05/22/96 |
| | | | | |

# IEA-CT ANALYTICAL SUMMARY

**Client ID:** APD-SD29-01, APD-SD29-91, APD-SD30-01, APD-SD18-01, APD-SD18-91, APD-SD26-01, APD-SD27-01, APD-SD28-01, APD-SD32-01, APD-SD17-01, APD-SD31-01, APD-SD33-01, APD-SD35-01, APD-SD19-01 ...
**Job Number:** 7096-0962A

**Date:** 6/21/96

| Qty | Matrix | Analysis | Description | Unit Price | Total Price |
|---|---|---|---|---|---|
| 1 | None | DISK | Diskette Prep. | | |
| 22 | SOIL | PPC-CLP1.9-TCL | TCL Pesticides/PCB's | | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD29-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-01

Sample wt/vol: 30.02 (g/ml) G Lab File ID: B5217CLP350

% Moisture: 26 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/96

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 89 | U |
| 11104-28-2 | Aroclor-1221 | 180 | U |
| 11141-16-5 | Aroclor-1232 | 89 | U |
| 53469-21-9 | Aroclor-1242 | 89 | U |
| 12672-29-6 | Aroclor-1248 | 180 | |
| 11097-69-1 | Aroclor-1254 | 380 | P |
| 11096-82-5 | Aroclor-1260 | 330 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD29-91

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-02

Sample wt/vol: 30.19 (g/ml) G Lab File ID: B1005CLP545

% Moisture: 39 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 54 | U |
| 11104-28-2 | Aroclor-1221 | 110 | U |
| 11141-16-5 | Aroclor-1232 | 54 | U |
| 53469-21-9 | Aroclor-1242 | 54 | U |
| 12672-29-6 | Aroclor-1248 | 84. | P |
| 11097-69-1 | Aroclor-1254 | 450 | P |
| 11096-82-5 | Aroclor-1260 | 570 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD30-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-03

Sample wt/vol: 30.03 (g/ml) G Lab File ID: B1005CLP546

% Moisture: 53 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 70 | U |
| 11104-28-2 | Aroclor-1221 | 140 | U |
| 11141-16-5 | Aroclor-1232 | 70 | U |
| 53469-21-9 | Aroclor-1242 | 70 | U |
| 12672-29-6 | Aroclor-1248 | 74. | P |
| 11097-69-1 | Aroclor-1254 | 570 | P |
| 11096-82-5 | Aroclor-1260 | 390 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD18-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-04

Sample wt/vol: 30.18 (g/ml) G Lab File ID: B1005CLP555

% Moisture: 36 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 51 | U |
| 11097-69-1 | Aroclor-1254 | 51 | U |
| 11096-82-5 | Aroclor-1260 | 51 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD18-91

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-05

Sample wt/vol: 30.15 (g/ml) G Lab File ID: B1005CLP556

% Moisture: 38 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 53 | U |
| 11104-28-2 | Aroclor-1221 | 110 | U |
| 11141-16-5 | Aroclor-1232 | 53 | U |
| 53469-21-9 | Aroclor-1242 | 53 | U |
| 12672-29-6 | Aroclor-1248 | 53 | U |
| 11097-69-1 | Aroclor-1254 | 53 | U |
| 11096-82-5 | Aroclor-1260 | 53 | U |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD26-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-06

Sample wt/vol: 30.01 (g/ml) G Lab File ID: B5217CLP357

% Moisture: 58 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/96

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 390 | U |
| 11104-28-2 | Aroclor-1221 | 800 | U |
| 11141-16-5 | Aroclor-1232 | 390 | U |
| 53469-21-9 | Aroclor-1242 | 390 | U |
| 12672-29-6 | Aroclor-1248 | 320 | JP |
| 11097-69-1 | Aroclor-1254 | 1700 | |
| 11096-82-5 | Aroclor-1260 | 1900 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD27-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-07

Sample wt/vol: 30.05 (g/ml) G Lab File ID: B1005CLP550

% Moisture: 54 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 72 | U |
| 11104-28-2 | Aroclor-1221 | 140 | U |
| 11141-16-5 | Aroclor-1232 | 72 | U |
| 53469-21-9 | Aroclor-1242 | 72 | U |
| 12672-29-6 | Aroclor-1248 | 48. | J |
| 11097-69-1 | Aroclor-1254 | 190 | P |
| 11096-82-5 | Aroclor-1260 | 270 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD28-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-08

Sample wt/vol: 30.17 (g/ml) G Lab File ID: B5217CLP370

% Moisture: 54 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 360 | U |
| 11104-28-2 | Aroclor-1221 | 720 | U |
| 11141-16-5 | Aroclor-1232 | 360 | U |
| 53469-21-9 | Aroclor-1242 | 360 | U |
| 12672-29-6 | Aroclor-1248 | 220 | J |
| 11097-69-1 | Aroclor-1254 | 1200 | |
| 11096-82-5 | Aroclor-1260 | 970 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD32-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-09

Sample wt/vol: 30.17 (g/ml) G Lab File ID: B5217CLP358

% Moisture: 32 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/12/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 48 | U |
| 11104-28-2 | Aroclor-1221 | 98 | U |
| 11141-16-5 | Aroclor-1232 | 48 | U |
| 53469-21-9 | Aroclor-1242 | 48 | U |
| 12672-29-6 | Aroclor-1248 | 35. | JP |
| 11097-69-1 | Aroclor-1254 | 79. | P |
| 11096-82-5 | Aroclor-1260 | 73. | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD17-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-10

Sample wt/vol: 30.07 (g/ml) G Lab File ID: B5217CLP363

% Moisture: 61 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 84 | U |
| 11104-28-2 | Aroclor-1221 | 170 | U |
| 11141-16-5 | Aroclor-1232 | 84 | U |
| 53469-21-9 | Aroclor-1242 | 84 | U |
| 12672-29-6 | Aroclor-1248 | 58. | JP |
| 11097-69-1 | Aroclor-1254 | 150 | P |
| 11096-82-5 | Aroclor-1260 | 140 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD31-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-11

Sample wt/vol: 30.16 (g/ml) G Lab File ID: B5217CLP369

% Moisture: 56 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.5 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 75 | U |
| 11104-28-2 | Aroclor-1221 | 150 | U |
| 11141-16-5 | Aroclor-1232 | 75 | U |
| 53469-21-9 | Aroclor-1242 | 75 | U |
| 12672-29-6 | Aroclor-1248 | 61. | JP |
| 11097-69-1 | Aroclor-1254 | 600 | |
| 11096-82-5 | Aroclor-1260 | 240 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD33-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-12

Sample wt/vol: 30 (g/ml) G Lab File ID: B5217CLP371

% Moisture: 82 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 9200 | U |
| 11104-28-2 | Aroclor-1221 | 19000 | U |
| 11141-16-5 | Aroclor-1232 | 9200 | U |
| 53469-21-9 | Aroclor-1242 | 9200 | U |
| 12672-29-6 | Aroclor-1248 | 27000 | P |
| 11097-69-1 | Aroclor-1254 | 63000 | P |
| 11096-82-5 | Aroclor-1260 | 35000 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD35-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-13

Sample wt/vol: 30.08 (g/ml) G Lab File ID: B1005CLP579

% Moisture: 61 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 50.0

GPC Cleanup: (Y/N) Y pH: 6.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 4200 | U |
| 11104-28-2 | Aroclor-1221 | 8600 | U |
| 11141-16-5 | Aroclor-1232 | 4200 | U |
| 53469-21-9 | Aroclor-1242 | 4200 | U |
| 12672-29-6 | Aroclor-1248 | 2700 | JP |
| 11097-69-1 | Aroclor-1254 | 8100 | P |
| 11096-82-5 | Aroclor-1260 | 6200 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD19-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-14

Sample wt/vol: 30.13 (g/ml) G Lab File ID: B1005CLP563

% Moisture: 37 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 52 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 52 | U |
| 53469-21-9 | Aroclor-1242 | 52 | U |
| 12672-29-6 | Aroclor-1248 | 13. | JP |
| 11097-69-1 | Aroclor-1254 | 36. | JP |
| 11096-82-5 | Aroclor-1260 | 16. | JP |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD34-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-15

Sample wt/vol: 30.15 (g/ml) G Lab File ID: B1005CLP615

% Moisture: 38 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/14/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 53 | U |
| 11104-28-2 | Aroclor-1221 | 110 | U |
| 11141-16-5 | Aroclor-1232 | 53 | U |
| 53469-21-9 | Aroclor-1242 | 53 | U |
| 12672-29-6 | Aroclor-1248 | 53 | U |
| 11097-69-1 | Aroclor-1254 | 14. | JP |
| 11096-82-5 | Aroclor-1260 | 13. | JP |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD 3D21-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-16

Sample wt/vol: 30.11 (g/ml) G Lab File ID: B1005CLP580

% Moisture: 68 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.2 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 2000 | U |
| 11104-28-2 | Aroclor-1221 | 4200 | U |
| 11141-16-5 | Aroclor-1232 | 2000 | U |
| 53469-21-9 | Aroclor-1242 | 2000 | U |
| 12672-29-6 | Aroclor-1248 | 1300 | JP |
| 11097-69-1 | Aroclor-1254 | 8700 | |
| 11096-82-5 | Aroclor-1260 | 3100 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD20-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-17

Sample wt/vol: 30.08 (g/ml) G Lab File ID: B1005CLP566

% Moisture: 78 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.1 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 150 | U |
| 11104-28-2 | Aroclor-1221 | 300 | U |
| 11141-16-5 | Aroclor-1232 | 150 | U |
| 53469-21-9 | Aroclor-1242 | 150 | U |
| 12672-29-6 | Aroclor-1248 | 150 | U |
| 11097-69-1 | Aroclor-1254 | 79. | J |
| 11096-82-5 | Aroclor-1260 | 180 | P |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD22-91

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-18

Sample wt/vol: 30.08 (g/ml) G Lab File ID: B1005CLP581

% Moisture: 38 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 530 | U |
| 11104-28-2 | Aroclor-1221 | 1100 | U |
| 11141-16-5 | Aroclor-1232 | 530 | U |
| 53469-21-9 | Aroclor-1242 | 530 | U |
| 12672-29-6 | Aroclor-1248 | 270 | JP |
| 11097-69-1 | Aroclor-1254 | 1800 | |
| 11096-82-5 | Aroclor-1260 | 830 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD22-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-19

Sample wt/vol: 30.08 (g/ml) G Lab File ID: B1005CLP573

% Moisture: 52 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 1400 | U |
| 11104-28-2 | Aroclor-1221 | 2800 | U |
| 11141-16-5 | Aroclor-1232 | 1400 | U |
| 53469-21-9 | Aroclor-1242 | 1400 | U |
| 12672-29-6 | Aroclor-1248 | 560 | JP |
| 11097-69-1 | Aroclor-1254 | 3600 | |
| 11096-82-5 | Aroclor-1260 | 1700 | |

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
APD-SD23-01

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 960962A-20

Sample wt/vol: 30.17 (g/ml) G Lab File ID: B1005CLP574

% Moisture: 22 decanted: (Y/N) N Date Received: 05/22/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/13/96

Injection Volume: 1.0 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 840 | U |
| 11104-28-2 | Aroclor-1221 | 1700 | U |
| 11141-16-5 | Aroclor-1232 | 840 | U |
| 53469-21-9 | Aroclor-1242 | 840 | U |
| 12672-29-6 | Aroclor-1248 | 770 | JP |
| 11097-69-1 | Aroclor-1254 | 4000 | |
| 11096-82-5 | Aroclor-1260 | 1900 | |

2F

# SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962 SAS No.: _____ SDG No.: A0962

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | APD-SD33-01 | 100D | 121D | 1146D | 149175D | | | 0 |
| 02 | APD-SD32-01 | 95 | 93 | 179* | 166* | | | 2 |
| 03 | APD-SD17-01 | 77 | 79 | 127 | 181* | | | 1 |
| 04 | APD-SD31-01 | 82 | 84 | 111 | 218* | | | 1 |
| 05 | APD-SD29-01 | 76D | 62D | 75D | 6037D | | | 0 |
| 06 | APD-SD26-01 | 95D | 113D | 442D | 15295D | | | 0 |
| 07 | APD-SD28-01 | 85D | 116D | 195D | D | | | 0 |
| 08 | | | | | | | | |
| 09 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | (60-150) |
| DCB = Decachlorobiphenyl | (60-150) |

# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out



FORM II PEST-1

3/90

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA-CT Contract: _____

ab Code: IEACT Case No.: 0962 SAS No.: _____ SDG No.: A0962

GC Column(1): RTX-35 ID:0.53(mm) GC Column(2): DB-1701 ID:0.53(mm)

| | EPA SAMPLE NO. | TCX 1 %REC # | TCX 2 %REC # | DCB 1 %REC # | DCB 2 %REC # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|
| 01 | PBLK90 | 73 | 68 | 105 | 84 | | | 0 |
| 02 | APD-SD29-01MS | 66 | 86 | 108 | 86 | | | 0 |
| 03 | APD-SD29-01MSD | 56* | 153* | 3004* | 109 | | | 3 |
| 04 | APD-SD29-91 | 70 | 80 | 2965* | 121 | | | 1 |
| 05 | APD-SD30-01 | 72 | 70 | 2407* | 338* | | | 2 |
| 06 | APD-SD27-01 | 88 | 90 | 210* | 265* | | | 2 |
| 07 | APD-SD18-01 | 73 | 75 | 140 | 87 | | | 0 |
| 08 | APD-SD18-91 | 71 | 75 | 120 | 86 | | | 0 |
| 09 | APD-SD20-01 | 81 | 73 | 189* | 153* | | | 2 |
| 10 | APD-SD19-01 | 93 | 250* | 132 | 274* | | | 2 |
| 11 | APD-SD22-01 | D | 88D | 200D | 115D | | | 0 |
| 12 | APD-SD23-01 | 90D | 92D | 302D | 165D | | | 0 |
| 13 | APD-SD35-01 | 116D | 102D | 133765D | 253D | | | 0 |
| 14 | APD-SD21-01 | 106D | 96D | 65905D | 238D | | | 0 |
| 15 | APD-SD22-91 | 76D | 75D | D | 101D | | | 0 |
| 16 | APD-SD34-01 | 96 | 94 | 2937* | 96 | | | 1 |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

| | ADVISORY QC LIMITS |
|---|---|
| TCX = Tetrachloro-m-xylene | (60-150) |
| DCB = Decachlorobiphenyl | (60-150) |

# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out



FORM II PEST-1

3/90

3F

# SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix Spike - EPA Sample No.: APD-SD29-01

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Aroclor-1260 | 450 | 330 | 540 | 47 | 10-177 |
| | | | | | |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | REC. |
|---|---|---|---|---|---|---|
| Aroclor-1260 | 450 | 480 | 33 | 35 | 50 | 10-177 |
| | | | | | | |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III PEST-2

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK90

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Lab sample ID: 052896-B07 Lab File ID: B1005CLP541

Matrix:(soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 05/28/96

Date Analyzed (1): 06/11/96 Date Analyzed (2): 06/12/96

Time Analyzed (1): 0338 Time Analyzed (2): 1307

Instrument ID (1): HP58901B Instrument ID (2): HP58905B

GC Column (1):RTX-35 ID:0.53(mm) GC Column (2):DB-1701 ID:0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | APD-SD32-01 | 960962A-09 | 06/14/96 | 06/12/96 |
| 02 | APD-SD17-01 | 960962A-10 | 06/14/96 | 06/13/96 |
| 03 | APD-SD31-01 | 960962A-11 | 06/14/96 | 06/13/96 |
| 04 | APD-SD29-01MS | 960962A-01MS | 06/11/96 | 06/18/96 |
| 05 | APD-SD29-01MSD | 960962A-01MSD | 06/11/96 | 06/18/96 |
| 06 | APD-SD29-91 | 960962A-02 | 06/11/96 | 06/12/96 |
| 07 | APD-SD30-01 | 960962A-03 | 06/11/96 | 06/12/96 |
| 08 | APD-SD27-01 | 960962A-07 | 06/11/96 | 06/13/96 |
| 09 | APD-SD18-01 | 960962A-04 | 06/11/95 | 06/12/96 |
| 10 | APD-SD18-91 | 960962A-05 | 06/11/96 | 06/12/96 |
| 11 | APD-SD22-01 | 960962A-19 | 06/13/96 | 06/18/96 |
| 12 | APD-SD23-01 | 960962A-20 | 06/13/96 | 06/18/96 |
| 13 | APD-SD29-01 | 960962A-01 | 06/14/96 | 06/12/96 |
| 14 | APD-SD19-01 | 960962A-14 | 06/11/96 | 06/17/96 |
| 15 | APD-SD26-01 | 960962A-06 | 06/14/96 | 06/12/96 |
| 16 | APD-SD33-01 | 960962A-12 | 06/13/96 | 06/13/96 |
| 17 | APD-SD35-01 | 960962A-13 | 06/13/96 | 06/18/96 |
| 18 | APD-SD28-01 | 960962A-08 | 06/14/96 | 06/13/96 |
| 19 | APD-SD21-01 | 960962A-16 | 06/13/96 | 06/18/96 |
| 20 | APD-SD20-01 | 960962A-17 | 06/11/96 | 06/13/96 |
| 21 | APD-SD22-91 | 960962A-18 | 06/13/96 | 06/17/96 |
| 22 | APD-SD34-01 | 960962A-15 | 06/14/96 | 06/17/96 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

COMMENTS: _____



FORM IV PEST

3/90

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
PBLK90

Lab Name: IEA-CT Contract: _____

Lab Code: IEACT Case No.: 0962A SAS No.: _____ SDG No.: A0962

Matrix: (soil/water): SOIL Lab Sample ID: 052896-B07

Sample wt/vol: 30 (g/ml) G Lab File ID: B1005CLP541

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/28/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/96

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 67 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |

# Laboratory Case Narrative

Project Name ACS
Project Number 4077.0076

July 24, 1996
Login # 13163

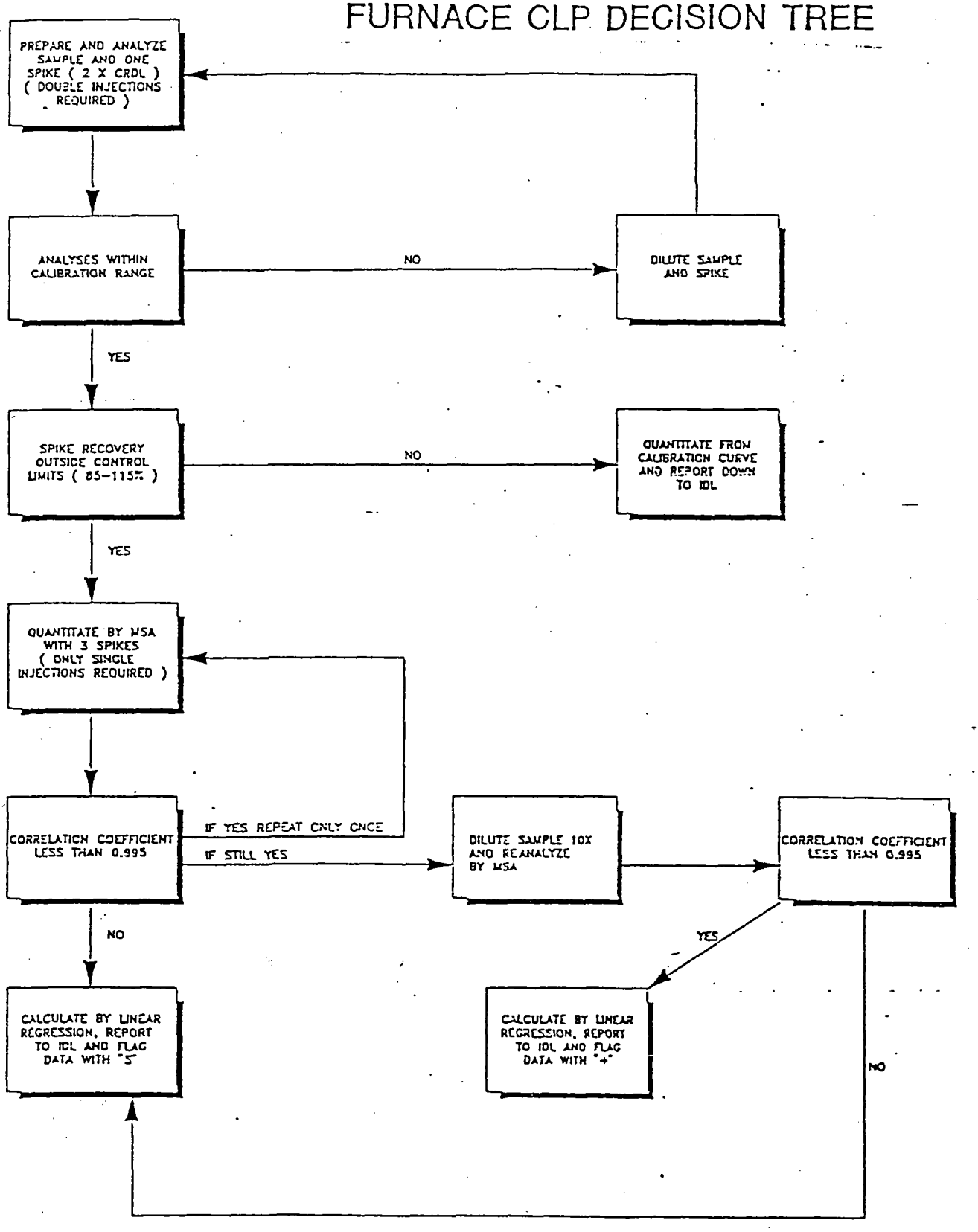
This deliverable package prepared by Montgomery Watson Laboratories includes 15 filtered surface water samples for selected CLP metals (Fe, Cd, Pb, and Zn) analysis. This data is acceptable for use with the following comment:

Lead - Flags associated with this data include "S" indicating furnace post digestion spike QC criteria was exceeded. "S" indicates the sample was rerun by method of standard addition.

JAH/jah
J:\MWATS\DMGMTL1363.DOC
4077.0076

MONTGOMERY WATSON

# FURNACE CLP DECISION TREE



MONTGOMERY WATSON

# ICAP CALIBRATION STANDARDS

| Element | Wave-length | Detection Limit(ug/L) | Cal. Std. 1 (ug/L) | Cal. Std. 2 (ug/L) | Cal. Std. 3 (ug/L) | ICV (ug/L) | CCV (ug/L) | CRI (ug/L) |
|---|---|---|---|---|---|---|---|---|
| Al | 237.335 | 50 | 20,000 | 400 | --- | 2500 | 4000 | 400 |
| Sb | 206.833 | 50 | 2000 | 500 | 250 | 1000 | 1000 | 120 |
| Ba | 233.527 | 10 | 10,000 | 200 | --- | 500 | 2000 | 400 |
| Be | 313.107 | 5 | 1000 | 20 | --- | 250 | 200 | 10 |
| B | 249.678 | 100 | 10,000 | 500 | --- | 2000 | 5000 | -- |
| Cd | 228.802 | 5 | 1000 | 50 | --- | 500 | 200 | 10 |
| Cd | 214.438 | 5 | 1000 | 50 | --- | 500 | 200 | 10 |
| Ca | 317.933 | 1000 | 200,000 | 10,000 | --- | 10,000 | 80,000 | -- |
| Cr | 267.716 | 10 | 10,000 | 500 | 200 | 1000 | 2000 | 20 |
| Co | 238.892 | 50 | 10,000 | 200 | --- | 2500 | 2000 | 100 |
| Co | 228.616 | 10 | 10,000 | 200 | --- | 2500 | 2000 | 100 |
| Cu | 324.754 | 10 | 10,000 | 100 | --- | 1000 | 2000 | 50 |
| Cu | 224.700 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 50 |
| Fe | 238.204 | 20 | 20,000 | 200 | --- | 1000 | 4000 | 200 |
| Pb | 220.353 | 100 | 10,000 | 500 | --- | 5000 | 2000 | 200 |
| Pb | 216.999 | 100 | 10,000 | 500 | --- | 5000 | 2000 | 200 |
| Mg | 285.213 | 1000 | 100,000 | 5000 | --- | 10,000 | 40,000 | -- |
| Mn | 257.610 | 10 | 10,000 | 100 | --- | 500 | 2000 | 30 |
| Mo | 202.030 | 200 | 20,000 | 1000 | --- | 5000 | 10,000 | -- |
| Ni | 352.454 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 80 |
| Ni | 232.003 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 80 |
| Ag | 338.289 | 10 | 1000 | --- | 50 | 500 | 200 | 20 |
| Na | 330.237 | 2000 | 100,000 | 5000 | --- | 20,000 | 40,000 | -- |
| Sr | 216.596 | 50 | 5000 | 500 | --- | 1000 | 2000 | -- |
| Sn | 189.989 | 200 | 10,000 | 1000 | --- | 2500 | 5000 | -- |
| Tl | 276.787 | 200 | 10,000 | 2000 | --- | 4000 | 5000 | 400 |
| Ti | 336.121 | 10 | 5000 | 100 | --- | 1000 | 2000 | -- |
| V | 292.402 | 50 | 10,000 | 500 | 250 | 2500 | 2000 | 100 |
| Zn | 213.856 | 10 | 10,000 | 100 | 50 | 500 | 2000 | 40 |

# ICP Calibration Standards for Aqueous and Non-Aqueous Samples

1. **ICP Stock Calibration Standards:** ICP calibration standards are prepared from both multi-element stock solutions purchased from SPEX Industries (custom mixed standards) and single element stock solutions from VWR and Baxter (Baker or Mallinckrodt as available).

| XWE-1 | XWE-2 | XWE-3a | XWE-4a |
|---|---|---|---|
| 2000 mg/L Fe | 20,000 mg/L Ca | 1000 mg/L Cr | 2000 mg/L Al |
| 1000 mg/L Cu | 10,000 mg/L Mg | 1000 mg/L Pb | 1000 mg/L Ba |
| 1000 mg/L Mn | 10,000 mg/L Na | 1000 mg/L V | 1000 mg/L Co |
| 1000 mg/L Ni | | 100 mg/L Cd | 100 mg/L Be |
| 1000 mg/L Zn | | | 100 mg/L Ag |

| XWE-6a |
|---|
| 500 mg/L Pb |
| 250 mg/L Co, Al |
| 100 mg/L Cu, Ni, Fe, Cr |
| 50 mg/L Ba, Cd, Ag, Zn, Mn |

| Single Element Stock Solutions 1000 mg/L | | |
|---|---|---|
| Sb | Ag | Mo |
| Be | Na | Sr |
| Ca | V | Ti |
| Cr | Zn | Tl |
| Mg | Sn | B |

2. **Calibration Standard #1:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, Zn: Into a 1 L volumetric flask, add 500 mL of de-ionized water and 50 mL of concentrated HCl. Pipet 10 mL each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Add 10 mL of 1000 mg/L B, and 2.0 mL 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every 6 months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 2.5 mL of 1000 mg/L Sr, 2.5 mL of 1000 mg/L Ti, 5.0 mL of 1000 mg/L Tl, 10.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 1.0 mL of 1000 mg/L Sn stock solution. Dilute to volume with deionized water. Prepare fresh daily.

3. **Calibration Standard #2:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Na, Ag, Sb, V, and Zn: First prepare 10X dilutions each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Then, into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 1.0 mL of XWE-1 (10X dilution), 5.0 mL of XWE-2 (10X dilution), 5.0 mL of XWE-3a (10X dilution), and 2.0 mL of XWE-4a (10X dilution). Add 0.5 mL of 1000 mg/L B, and 0.5 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 250 uL of 1000 mg/L Sr, 50 uL of 1000 mg/L Ti, 1.0 mL of 1000 mg/L Tl, 0.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10 mL of Sn Calibration Standard #1 and dilute to volume with deionized water. Prepare fresh daily.

4. **Calibration Standard #3:**
   a. For Cr, Ag, Sb, V, and Zn: Prepare intermediates as follows:

      - 50 mg/L Zn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Zn stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Ag: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Ag stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 100 mg/L Cr: Into a 100 mL volumetric flask pipet, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10.0 mL of Cr stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Sb: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Sb stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L V: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of V stock solution (1000 mg/L) and dilute to volume with deionized water.

   b. Prepare Cr, Ag, V, and Zn Calibration Standard #3 from intermediates as follows: Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 100 mg/L Cr intermediate, 0.5 mL of 50 mg/L Ag intermediate, 0.5 mL of the 50 mg/L Zn intermediate, 2.5 mL of the 50 mg/L V intermediate, and 2.5 mL of 50 mg/L Sb intermediate. Dilute to volume with deionized water. Prepare fresh every six months.

5. **Initial Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Sb, Na, V, and Zn: Into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 10 mL of XWE-6a, 10 mL of 1000 mg/L Mg, 10 mL of 1000 mg/L Ca, 20 mL of 1000 mg/L Na, 2.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 0.5 mL of 1000 mg/L Sr, 0.5 mL of 1000 mg/L Ti, 2.0 mL of 1000 mg/L Tl, 2.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 250 uL of 1000 mg/L Sn and dilute to volume with deionized water. Prepare fresh daily.

6. **Continuing Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, and Zn: Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL each of XWE-1, XWE-3a, XWE-4a, and 4.0 mL of XWE-2. Add 5.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 1000 mg/L Sr, 1.0 mL of 1000 mg/L Ti, 2.5 mL of 1000 mg/L Tl, 5.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL deionized water and 10 mL of 1:1 HCl. Pipet 0.5 mL of 1000 mg/L Sn stock and dilute to volume with deionized water. Prepare fresh daily.

7. **CRI Standard:** Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL of SPEX ICV-1a and dilute to volume with deionized water. Prepare fresh every six months.

8. **ICSA Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and dilute to volume with deionized water. Prepare fresh every six months.

9. **ICSAB Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and 5.0 mL of SPEX INT.B1 and dilute to volume with deionized water. Prepare fresh every six months.

U.S. EPA - CLP

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SD3163

SOW No.: 3/90

| Sample Description | Lab Sample ID. | EPA Sample No. | LIMS Sample ID. |
|---|---|---|---|
| APD-SW11-01-FILTERED | 3163-001 | 316301 | L13163-001 |
| APD-SW12-01-FILTERED | 3163-002 | 316302 | L13163-002 |
| APD-SW13-01-FILTERED | 3163-003 | 316303 | L13163-003 |
| APD-SW18-01-FILTERED | 3163-004 | 316304 | L13163-004 |
| APD-SW19-01-FILTERED | 3163-005 | 316305 | L13163-005 |
| APD-SW17-01-FILTERED | 3163-006 | 316306 | L13163-006 |
| APD-SW20-01-FILTERED | 3163-007 | 316307 | L13163-007 |
| APD-SW20-91-FILTERED | 3163-008 | 316308 | L13163-008 |
| APD-SW10-01-FILTERED | 3163-009 | 316309 | L13163-009 |
| APD-SW14-01-FILTERED | 3163-010 | 316310 | L13163-010 |
| APD-SW15-01-FILTERED | 3163-011 | 316311 | L13163-011 |
| APD-SW15-91-FILTERED | 3163-012 | 316312 | L13163-012 |
| APD-SW09-01-FILTERED | 3163-013 | 316313 | L13163-013 |
| APD-SWFB01-01-FILTERED | 3163-014 | 316314 | L13163-014 |
| APD-SW16-01-FILTERED | 3163-015 | 316315 | L13163-015 |

Were ICP interelement corrections applied? Yes/No _____

Were ICP background corrections applied? Yes/No _____

If yes - were raw data generated before application of background corrections? Yes/No _____

Comments:

Release of the data contained in this hardcopy data package has been authorized by the Laboratory manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 7/25/96

[V-CLP-1]
7/87

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

SOW No.: 3/90

| EPA Sample No. | Lab Sample ID. |
|---|---|
| 316301 | 3163-001 |
| 316301S | 3163-001S |
| 316302 | 3163-002 |
| 316302D | 3163-002D |
| 316303 | 3163-003 |
| 316304 | 3163-004 |
| 316305 | 3163-005 |
| 316306 | 3163-006 |
| 316307 | 3163-007 |
| 316308 | 3163-008 |
| 316309 | 3163-009 |
| 316310 | 3163-010 |
| 316311 | 3163-011 |
| 316311S | 3163-011S |
| 316312 | 3163-012 |
| 316312D | 3163-012D |
| 316313 | 3163-013 |
| 316314 | 3163-014 |
| 316315 | 3163-015 |

Were ICP interelement corrections applied? Yes/No

Were ICP background corrections applied? Yes/No
If yes-were raw data generated before application of background corrections? Yes/No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Sheila M. Tanschek

Date: 7/25/96 Title: Laboratory Director

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316301

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-001

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1580 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316302

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-002

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1930 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316303

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-003

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1560 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316304

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-004

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 2030 | | | P |
| 7439-92-1 | Lead | 3.5 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 13.5 | B | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316305

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-005

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1930 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316306

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-006

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 726 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 12.0 | B | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316307

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-007

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 323 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.5 | B | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316308

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-008

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 488 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316309

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-009

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1350 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 12.0 | B | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316310

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-010

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 452 | | | P |
| 7439-92-1 | Lead | 1.6 | B | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316311

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-011

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1290 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 21.0 | | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316312

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-012

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1330 | | | P |
| 7439-92-1 | Lead | 1.6 | B | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 19.5 | B | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316313

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-013

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 3060 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316314

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-014

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 20.0 | U | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | | P |
| | Cyanide | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

316315

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD3163

Matrix (soil/water): WATER Lab Sample ID: 3163-015

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1890 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 11.0 | B | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

## Laboratory Case Narrative

Project Name ACS
Project Number 4077.0076

July 23, 1996
Login # 13168

This deliverable package prepared by Montgomery Watson Laboratories includes 5 sediment samples for selected CLP metals (As, Cd, Cr, Cu, Pb, Zn) analysis. This data is acceptable for use with the following comments:

Arsenic - $CCV_6$ recovery of 112.3% exceeded the QC limits, however, all affected samples were run by method of standard additions, so no qualifiers are required.

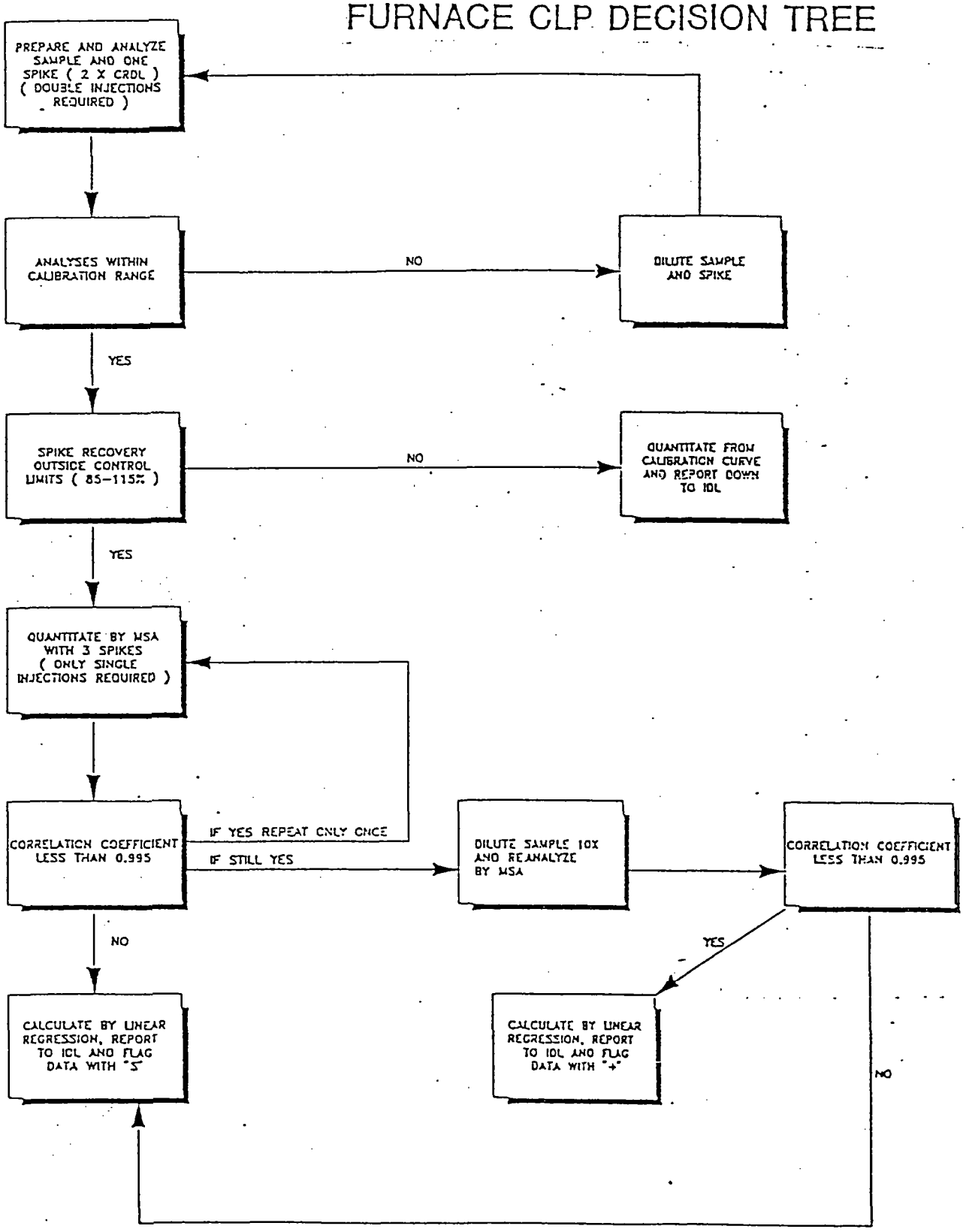
Lead - Spike recovery of 144% exceeded the QC limits; however, the sample result was greater than 4 times the spike concentration, so no qualifier is required. The prep blank exceeded the IDL at 0.37 mg/kg, but sample results were more than two magnitudes greater.

Additional flags associated with this data include "S" indicating furnace post digestion spike QC criteria was exceeded. "S" indicates the sample was rerun by method of standard addition.

JAH/jah
J:\MWATS\DMGMT\L1318.DOC

MONTGOMERY WATSON

# FURNACE CLP DECISION TREE



MONTGOMERY WATSON

# ICAP CALIBRATION STANDARDS

| Element | Wave-length | Detection Limit(ug/L) | Cal. Std. 1 (ug/L) | Cal. Std. 2 (ug/L) | Cal. Std. 3 (ug/L) | ICV (ug/L) | CCV (ug/L) | CRI (ug/L) |
|---|---|---|---|---|---|---|---|---|
| Al | 237.335 | 50 | 20,000 | 400 | --- | 2500 | 4000 | 400 |
| Sb | 206.833 | 50 | 2000 | 500 | 250 | 1000 | 1000 | 120 |
| Ba | 233.527 | 10 | 10,000 | 200 | --- | 500 | 2000 | 400 |
| Be | 313.107 | 5 | 1000 | 20 | --- | 250 | 200 | 10 |
| B | 249.678 | 100 | 10,000 | 500 | --- | 2000 | 5000 | -- |
| Cd | 228.802 | 5 | 1000 | 50 | --- | 500 | 200 | 10 |
| Cd | 214.438 | 5 | 1000 | 50 | --- | 500 | 200 | 10 |
| Ca | 317.933 | 1000 | 200,000 | 10,000 | --- | 10,000 | 80,000 | -- |
| Cr | 267.716 | 10 | 10,000 | 500 | 200 | 1000 | 2000 | 20 |
| Co | 238.892 | 50 | 10,000 | 200 | --- | 2500 | 2000 | 100 |
| Co | 228.616 | 10 | 10,000 | 200 | --- | 2500 | 2000 | 100 |
| Cu | 324.754 | 10 | 10,000 | 100 | --- | 1000 | 2000 | 50 |
| Cu | 224.700 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 50 |
| Fe | 238.204 | 20 | 20,000 | 200 | --- | 1000 | 4000 | 200 |
| Pb | 220.353 | 100 | 10,000 | 500 | --- | 5000 | 2000 | 200 |
| Pb | 216.999 | 100 | 10,000 | 500 | --- | 5000 | 2000 | 200 |
| Mg | 285.213 | 1000 | 100,000 | 5000 | --- | 10,000 | 40,000 | -- |
| Mn | 257.610 | 10 | 10,000 | 100 | --- | 500 | 2000 | 30 |
| Mo | 202.030 | 200 | 20,000 | 1000 | --- | 5000 | 10,000 | -- |
| Ni | 352.454 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 80 |
| Ni | 232.003 | 20 | 10,000 | 100 | --- | 1000 | 2000 | 80 |
| Ag | 338.289 | 10 | 1000 | --- | 50 | 500 | 200 | 20 |
| Na | 330.237 | 2000 | 100,000 | 5000 | --- | 20,000 | 40,000 | -- |
| Sr | 216.596 | 50 | 5000 | 500 | --- | 1000 | 2000 | -- |
| Sn | 189.989 | 200 | 10,000 | 1000 | --- | 2500 | 5000 | -- |
| Tl | 276.787 | 200 | 10,000 | 2000 | --- | 4000 | 5000 | 400 |
| Ti | 336.121 | 10 | 5000 | 100 | --- | 1000 | 2000 | -- |
| V | 292.402 | 50 | 10,000 | 500 | 250 | 2500 | 2000 | 100 |
| Zn | 213.856 | 10 | 10,000 | 100 | 50 | 500 | 2000 | 40 |

# ICP Calibration Standards for Aqueous and Non-Aqueous Samples

1. **ICP Stock Calibration Standards:** ICP calibration standards are prepared from both multi-element stock solutions purchased from SPEX Industries (custom mixed standards) and single element stock solutions from VWR and Baxter (Baker or Mallinckrodt as available).

| XWE-1 | XWE-2 | XWE-3a | XWE-4a |
|---|---|---|---|
| 2000 mg/L Fe | 20,000 mg/L Ca | 1000 mg/L Cr | 2000 mg/L Al |
| 1000 mg/L Cu | 10,000 mg/L Mg | 1000 mg/L Pb | 1000 mg/L Ba |
| 1000 mg/L Mn | 10,000 mg/L Na | 1000 mg/L V | 1000 mg/L Co |
| 1000 mg/L Ni | | 100 mg/L Cd | 100 mg/L Be |
| 1000 mg/L Zn | | | 100 mg/L Ag |

| XWE-6a |
|---|
| 500 mg/L Pb |
| 250 mg/L Co, Al |
| 100 mg/L Cu, Ni, Fe, Cr |
| 50 mg/L Ba, Cd, Ag, Zn, Mn |

| Single Element Stock Solutions 1000 mg/L | | |
|---|---|---|
| Sb | Ag | Mo |
| Be | Na | Sr |
| Ca | V | Ti |
| Cr | Zn | Tl |
| Mg | Sn | B |

2. **Calibration Standard #1:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, Zn: Into a 1 L volumetric flask, add 500 mL of de-ionized water and 50 mL of concentrated HCl. Pipet 10 mL each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Add 10 mL of 1000 mg/L B, and 2.0 mL 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every 6 months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 2.5 mL of 1000 mg/L Sr, 2.5 mL of 1000 mg/L Ti, 5.0 mL of 1000 mg/L Tl, 10.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 1.0 mL of 1000 mg/L Sn stock solution. Dilute to volume with deionized water. Prepare fresh daily.

3. **Calibration Standard #2:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Na, Ag, Sb, V, and Zn: First prepare 10X dilutions each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Then, into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 1.0 mL of XWE-1 (10X dilution), 5.0 mL of XWE-2 (10X dilution), 5.0 mL of XWE-3a (10X dilution), and 2.0 mL of XWE-4a (10X dilution). Add 0.5 mL of 1000 mg/L B, and 0.5 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 250 uL of 1000 mg/L Sr, 50 uL of 1000 mg/L Ti, 1.0 mL of 1000 mg/L Tl, 0.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10 mL of Sn Calibration Standard #1 and dilute to volume with deionized water. Prepare fresh daily.

4. **Calibration Standard #3:**
   a. For Cr, Ag, Sb, V, and Zn: Prepare intermediates as follows:

      - 50 mg/L Zn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Zn stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Ag: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Ag stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 100 mg/L Cr: Into a 100 mL volumetric flask pipet, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10.0 mL of Cr stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Sb: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Sb stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L V: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of V stock solution (1000 mg/L) and dilute to volume with deionized water.

   b. Prepare Cr, Ag, V, and Zn Calibration Standard #3 from intermediates as follows: Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 100 mg/L Cr intermediate, 0.5 mL of 50 mg/L Ag intermediate, 0.5 mL of the 50 mg/L Zn intermediate, 2.5 mL of the 50 mg/L V intermediate, and 2.5 mL of 50 mg/L Sb intermediate. Dilute to volume with deionized water. Prepare fresh every six months.

5. **Initial Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Sb, Na, V, and Zn: Into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 10 mL of XWE-6a, 10 mL of 1000 mg/L Mg, 10 mL of 1000 mg/L Ca, 20 mL of 1000 mg/L Na, 2.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 0.5 mL of 1000 mg/L Sr, 0.5 mL of 1000 mg/L Ti, 2.0 mL of 1000 mg/L Tl, 2.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 250 uL of 1000 mg/L Sn and dilute to volume with deionized water. Prepare fresh daily.

6. **Continuing Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, and Zn: Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL each of XWE-1, XWE-3a, XWE-4a, and 4.0 mL of XWE-2. Add 5.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 1000 mg/L Sr, 1.0 mL of 1000 mg/L Ti, 2.5 mL of 1000 mg/L Tl, 5.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL deionized water and 10 mL of 1:1 HCl. Pipet 0.5 mL of 1000 mg/L Sn stock and dilute to volume with deionized water. Prepare fresh daily.

7. **CRI Standard:** Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL of SPEX ICV-1a and dilute to volume with deionized water. Prepare fresh every six months.

8. **ICSA Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and dilute to volume with deionized water. Prepare fresh every six months.

9. **ICSAB Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and 5.0 mL of SPEX INT.B1 and dilute to volume with deionized water. Prepare fresh every six months.

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SD1318

SOW No.: 3/90

| Sample Description | Lab Sample ID. | EPA Sample No. | LIMS Sample ID. |
|---|---|---|---|
| APD-SD21-01 | 1318-001 | 131801 | L13168-001 |
| APD-SD20-01 | 1318-002 | 131802 | L13168-002 |
| APD-SD22-91 | 1318-003 | 131803 | L13168-003 |
| APD-SD22-01 | 1318-004 | 131804 | L13168-004 |
| APD-SD23-01 | 1318-005 | 131805 | L13168-005 |

Were ICP interelement corrections applied? Yes/No

Were ICP background corrections applied? Yes/No

If yes - were raw data generated before application of background corrections? Yes/No

Comments:

Release of the data contained in this hardcopy data package has been authorized by the Laboratory manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 7/24/96

[V-CLP-1]
7/87

CLP-CVRPG

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

SOW No.: 3/90

| EPA Sample No. | Lab Sample ID. |
|---|---|
| 131801 | 1318-001 |
| 131801S | 1318-001S |
| 131802 | 1318-002 |
| 131802D | 1318-002D |
| 131803 | 1318-003 |
| 131804 | 1318-004 |
| 131805 | 1318-005 |

Were ICP interelement corrections applied? Yes/No

Were ICP background corrections applied? Yes/No

If yes-were raw data generated before application of background corrections? Yes/No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Sheila M. Tanschel

Date: 7/24/96 Title: Laboratory Director

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131801

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

Matrix (soil/water): SOIL Lab Sample ID: 1318-001

Level (low/med): LOW Date Received: 05/23/96

% Solids: 37.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 28.8 | | | F |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 11.0 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 36.2 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | 64.2 | | | P |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 161 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 394 | | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: MEDIUM Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131802

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

Matrix (soil/water): SOIL Lab Sample ID: 1318-002

Level (low/med): LOW Date Received: 05/23/96

% Solids: 27.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 13.2 | | | F |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 6.1 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 17.1 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | 29.3 | | | P |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 184 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 300 | | | P |
| | Cyanide | | | | |
| | | | | | |

Color Before: BROWN Clarity Before: MEDIUM Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131803

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

Matrix (soil/water): SOIL Lab Sample ID: 1318-003

Level (low/med): LOW Date Received: 05/23/96

% Solids: 62.0

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 3.4 | | S | F |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 2.5 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 11.5 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | 21.5 | | | P |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 48.5 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 106 | | | P |
| | Cyanide | | | | |

Color Before: BROWN Clarity Before: MEDIUM Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131804

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

Matrix (soil/water): SOIL Lab Sample ID: 1318-004

Level (low/med): LOW Date Received: 05/23/96

% Solids: 62.6

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 2.8 | B | S | F |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 2.8 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 11.5 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | 19.6 | | | P |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 62.0 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 107 | | | P |
| | Cyanide | | | | |

Color Before: BROWN Clarity Before: MEDIUM Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

131805

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1318

Matrix (soil/water): SOIL Lab Sample ID: 1318-005

Level (low/med): LOW Date Received: 05/23/96

% Solids: 79.9

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | 2.1 | B | S | F |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 2.4 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | 12.3 | | | P |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | 13.9 | | | P |
| 7439-89-6 | Iron | | | | |
| 7439-92-1 | Lead | 95.0 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | | | | |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 126 | | | P |
| | Cyanide | | | | |

Color Before: BROWN Clarity Before: MEDIUM Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

# Laboratory Case Narrative

Project Name ACS
Project Number 4077.0076

July 24, 1996
Login # 13162

This deliverable package prepared by Montgomery Watson Laboratories includes 15 unfiltered surface water samples for selected CLP metals (Fe, Cd, Pb, Zn, and $CN^-$) analysis. This data is acceptable for use with the following comments:

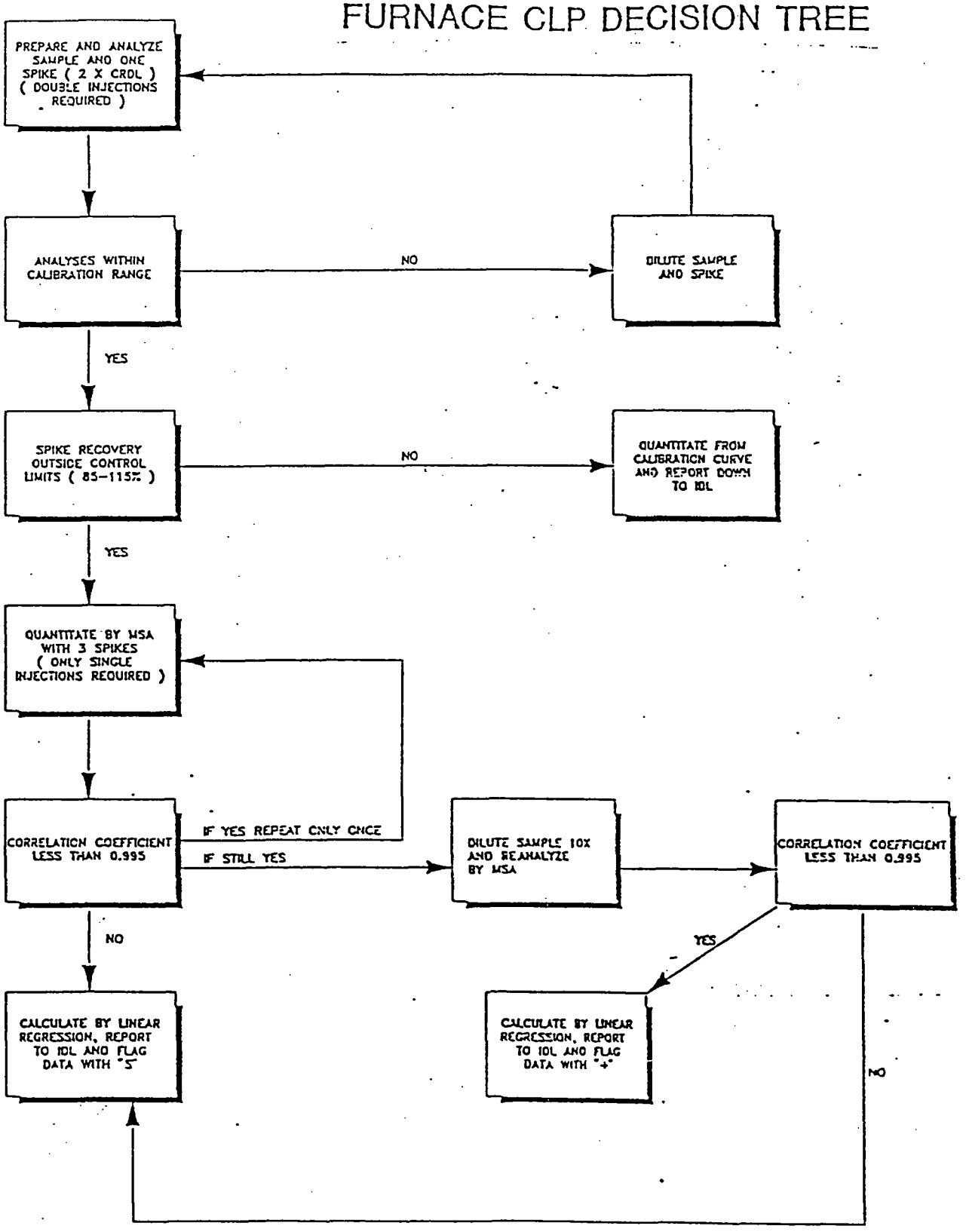
Zinc - The duplicate results for 13162-02 exceeded the QC limits, so sample results have been flagged with a "*".

Additional flags associated with this data include "S" indicating furnace post digestion spike QC criteria was exceeded. "S" indicates the sample was rerun by method of standard addition.

JAH/jah
J:\MWATS\DMGMT\L1362.DOC
4077.0076

MONTGOMERY WATSON

# FURNACE CLP DECISION TREE



MONTGOMERY WATSON

# ICAP CALIBRATION STANDARDS

| Element | Wave-length | Detection Limit(ug/L) | Cal. Std. 1 (ug/L) | Cal. Std. 2 (ug/L) | Cal. Std. 3 (ug/L) | ICV (ug/L) | CCV (ug/L) | CRI (ug/L) |
|---|---|---|---|---|---|---|---|---|
| Al | 237.335 | 50 | 20,000 | 400 | — | 2500 | 4000 | 400 |
| Sb | 206.833 | 50 | 2000 | 500 | 250 | 1000 | 1000 | 120 |
| Ba | 233.527 | 10 | 10,000 | 200 | — | 500 | 2000 | 400 |
| Be | 313.107 | 5 | 1000 | 20 | — | 250 | 200 | 10 |
| B | 249.678 | 100 | 10,000 | 500 | — | 2000 | 5000 | -- |
| Cd | 228.802 | 5 | 1000 | 50 | — | 500 | 200 | 10 |
| Cd | 214.438 | 5 | 1000 | 50 | — | 500 | 200 | 10 |
| Ca | 317.933 | 1000 | 200,000 | 10,000 | — | 10,000 | 80,000 | -- |
| Cr | 267.716 | 10 | 10,000 | 500 | 200 | 1000 | 2000 | 20 |
| Co | 238.892 | 50 | 10,000 | 200 | — | 2500 | 2000 | 100 |
| Co | 228.616 | 10 | 10,000 | 200 | — | 2500 | 2000 | 100 |
| Cu | 324.754 | 10 | 10,000 | 100 | — | 1000 | 2000 | 50 |
| Cu | 224.700 | 20 | 10,000 | 100 | — | 1000 | 2000 | 50 |
| Fe | 238.204 | 20 | 20,000 | 200 | — | 1000 | 4000 | 200 |
| Pb | 220.353 | 100 | 10,000 | 500 | — | 5000 | 2000 | 200 |
| Pb | 216.999 | 100 | 10,000 | 500 | — | 5000 | 2000 | 200 |
| Mg | 285.213 | 1000 | 100,000 | 5000 | — | 10,000 | 40,000 | -- |
| Mn | 257.610 | 10 | 10,000 | 100 | — | 500 | 2000 | 30 |
| Mo | 202.030 | 200 | 20,000 | 1000 | — | 5000 | 10,000 | -- |
| Ni | 352.454 | 20 | 10,000 | 100 | — | 1000 | 2000 | 80 |
| Ni | 232.003 | 20 | 10,000 | 100 | — | 1000 | 2000 | 80 |
| Ag | 338.289 | 10 | 1000 | — | 50 | 500 | 200 | 20 |
| Na | 330.237 | 2000 | 100,000 | 5000 | — | 20,000 | 40,000 | -- |
| Sr | 216.596 | 50 | 5000 | 500 | — | 1000 | 2000 | -- |
| Sn | 189.989 | 200 | 10,000 | 1000 | — | 2500 | 5000 | -- |
| Tl | 276.787 | 200 | 10,000 | 2000 | — | 4000 | 5000 | 400 |
| Ti | 336.121 | 10 | 5000 | 100 | — | 1000 | 2000 | -- |
| V | 292.402 | 50 | 10,000 | 500 | 250 | 2500 | 2000 | 100 |
| Zn | 213.856 | 10 | 10,000 | 100 | 50 | 500 | 2000 | 40 |

# ICP Calibration Standards for Aqueous and Non-Aqueous Samples

1. **ICP Stock Calibration Standards:** ICP calibration standards are prepared from both multi-element stock solutions purchased from SPEX Industries (custom mixed standards) and single element stock solutions from VWR and Baxter (Baker or Mallinckrodt as available).

| XWE-1 | XWE-2 | XWE-3a | XWE-4a |
|---|---|---|---|
| 2000 mg/L Fe | 20,000 mg/L Ca | 1000 mg/L Cr | 2000 mg/L Al |
| 1000 mg/L Cu | 10,000 mg/L Mg | 1000 mg/L Pb | 1000 mg/L Ba |
| 1000 mg/L Mn | 10,000 mg/L Na | 1000 mg/L V | 1000 mg/L Co |
| 1000 mg/L Ni | | 100 mg/L Cd | 100 mg/L Be |
| 1000 mg/L Zn | | | 100 mg/L Ag |

| XWE-6a |
|---|
| 500 mg/L Pb |
| 250 mg/L Co, Al |
| 100 mg/L Cu, Ni, Fe, Cr |
| 50 mg/L Ba, Cd, Ag, Zn, Mn |

| Single Element Stock Solutions 1000 mg/L | | |
|---|---|---|
| Sb | Ag | Mo |
| Be | Na | Sr |
| Ca | V | Ti |
| Cr | Zn | Tl |
| Mg | Sn | B |

2. **Calibration Standard #1:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, Zn: Into a 1 L volumetric flask, add 500 mL of de-ionized water and 50 mL of concentrated HCl. Pipet 10 mL each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Add 10 mL of 1000 mg/L B, and 2.0 mL 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every 6 months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 2.5 mL of 1000 mg/L Sr, 2.5 mL of 1000 mg/L Ti, 5.0 mL of 1000 mg/L Tl, 10.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 1.0 mL of 1000 mg/L Sn stock solution. Dilute to volume with deionized water. Prepare fresh daily.

3. **Calibration Standard #2:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Na, Ag, Sb, V, and Zn: First prepare 10X dilutions each of XWE-1, XWE-2, XWE-3a, and XWE-4a. Then, into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 1.0 mL of XWE-1 (10X dilution), 5.0 mL of XWE-2 (10X dilution), 5.0 mL of XWE-3a (10X dilution), and 2.0 mL of XWE-4a (10X dilution). Add 0.5 mL of 1000 mg/L B, and 0.5 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 250 uL of 1000 mg/L Sr, 50 uL of 1000 mg/L Ti, 1.0 mL of 1000 mg/L Tl, 0.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10 mL of Sn Calibration Standard #1 and dilute to volume with deionized water. Prepare fresh daily.

4. **Calibration Standard #3:**
   a. For Cr, Ag, Sb, V, and Zn: Prepare intermediates as follows:

      - 50 mg/L Zn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Zn stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Ag: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Ag stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 100 mg/L Cr: Into a 100 mL volumetric flask pipet, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 10.0 mL of Cr stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L Sb: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of Sb stock solution (1000 mg/L) and dilute to volume with deionized water.

      - 50 mg/L V: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 5.0 mL of V stock solution (1000 mg/L) and dilute to volume with deionized water.

   b. Prepare Cr, Ag, V, and Zn Calibration Standard #3 from intermediates as follows: Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 100 mg/L Cr intermediate, 0.5 mL of 50 mg/L Ag intermediate, 0.5 mL of the 50 mg/L Zn intermediate, 2.5 mL of the 50 mg/L V intermediate, and 2.5 mL of 50 mg/L Sb intermediate. Dilute to volume with deionized water. Prepare fresh every six months.

5. **Initial Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Sb, Na, V, and Zn: Into a 1 L volumetric flask, add 500 mL of deionized water and 50 mL of concentrated HCl. Pipet 10 mL of XWE-6a, 10 mL of 1000 mg/L Mg, 10 mL of 1000 mg/L Ca, 20 mL of 1000 mg/L Na, 2.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 0.5 mL of 1000 mg/L Sr, 0.5 mL of 1000 mg/L Ti, 2.0 mL of 1000 mg/L Tl, 2.5 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL of deionized water and 10 mL of 1:1 HCl. Pipet 250 uL of 1000 mg/L Sn and dilute to volume with deionized water. Prepare fresh daily.

6. **Continuing Calibration Verification Standard:**
   a. For Al, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Ni, Ag, Na, Sb, V, and Zn: Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL each of XWE-1, XWE-3a, XWE-4a, and 4.0 mL of XWE-2. Add 5.0 mL of 1000 mg/L B, and 1.0 mL of 1000 mg/L Sb. Dilute to volume with deionized water. Prepare fresh every six months.

   b. For Mo, Sr, Ti, Tl: Into a 500 mL volumetric flask, add 250 mL of deionized water and 25 mL of concentrated HCl. Pipet 1.0 mL of 1000 mg/L Sr, 1.0 mL of 1000 mg/L Ti, 2.5 mL of 1000 mg/L Tl, 5.0 mL of 1000 mg/L Mo. Dilute to volume with deionized water. Prepare fresh every six months.

   c. For Sn: Into a 100 mL volumetric flask, add 50 mL deionized water and 10 mL of 1:1 HCl. Pipet 0.5 mL of 1000 mg/L Sn stock and dilute to volume with deionized water. Prepare fresh daily.

7. **CRI Standard:** Into a 1 L volumetric flask, add 500 mL deionized water and 50 mL of concentrated HCl. Pipet 2.0 mL of SPEX ICV-1a and dilute to volume with deionized water. Prepare fresh every six months.

8. **ICSA Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and dilute to volume with deionized water. Prepare fresh every six months.

9. **ICSAB Standard:** Into a 500 mL volumetric flask, add 250 mL deionized water and 25 mL of concentrated HCl. Pipet 50 mL of SPEX INT.A1 and 5.0 mL of SPEX INT.B1 and dilute to volume with deionized water. Prepare fresh every six months.

U.S. EPA - CLP

# COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: SD1362

SOW No.: 3/90

| Sample Description | Lab Sample ID. | EPA Sample No. | LIMS Sample ID. |
|---|---|---|---|
| APD-SW11-01 | 1362-001 | 136201 | L13162-001 |
| APD-SW12-01 | 1362-002 | 136202 | L13162-002 |
| APD-SW13-01 | 1362-003 | 136203 | L13162-003 |
| APD-SW18-01 | 1362-004 | 136204 | L13162-004 |
| APD-SW19-01 | 1362-005 | 136205 | L13162-005 |
| APD-SW17-01 | 1362-006 | 136206 | L13162-006 |
| APD-SW20-01 | 1362-007 | 136207 | L13162-007 |
| APD-SW20-91 | 1362-008 | 136208 | L13162-008 |
| APD-SW10-01 | 1362-009 | 136209 | L13162-009 |
| APD-SW14-01 | 1362-010 | 136210 | L13162-010 |
| APD-SW15-01 | 1362-011 | 136211 | L13162-011 |
| APD-SW15-91 | 1362-012 | 136212 | L13162-012 |
| APD-SW09-01 | 1362-013 | 136213 | L13162-013 |
| APD-SWFB01-01 | 1362-014 | 136214 | L13162-014 |
| APD-SW16-01 | 1362-015 | 136215 | L13162-015 |

Were ICP interelement corrections applied? Yes/No (No) _____

Were ICP background corrections applied? (Yes)/No _____

If yes - were raw data generated before application of background corrections? Yes/No (No) _____

Comments:

Release of the data contained in this hardcopy data package has been authorized by the Laboratory manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: _____

000007

[V-CLP-1]
7/87



[redacted]

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

SOW No.: 3/90

| EPA Sample No. | Lab Sample ID. |
|---|---|
| 136201 | 1362-001 |
| 136201S | 1362-001S |
| 136202 | 1362-002 |
| 136202D | 1362-002D |
| 136203 | 1362-003 |
| 136204 | 1362-004 |
| 136205 | 1362-005 |
| 136206 | 1362-006 |
| 136207 | 1362-007 |
| 136208 | 1362-008 |
| 136209 | 1362-009 |
| 136210 | 1362-010 |
| 136211 | 1362-011 |
| 136211S | 1362-011S |
| 136212 | 1362-012 |
| 136212D | 1362-012D |
| 136213 | 1362-013 |
| 136214 | 1362-014 |
| 136215 | 1362-015 |

Were ICP interelement corrections applied? Yes/No

Were ICP background corrections applied? Yes/No
If yes-were raw data generated before application of background corrections? Yes/No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136201

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-001

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 4590 | | | P |
| 7439-92-1 | Lead | 1.9 | B | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 38.0 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136202

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-002

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 2600 | | | P |
| 7439-92-1 | Lead | 2.5 | B | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 58.5 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136203

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-003

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 2890 | | | P |
| 7439-92-1 | Lead | 8.5 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 22.5 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136204

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-004

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 8.0 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 20200 | | | P |
| 7439-92-1 | Lead | 184 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.28 | | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 365 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136205

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-005

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 3720 | | | P |
| 7439-92-1 | Lead | 4.6 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 179 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136206

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-006

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1660 | | | P |
| 7439-92-1 | Lead | 6.1 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 41.5 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136207

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-007

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1440 | | | P |
| 7439-92-1 | Lead | 8.7 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 15.5 | B | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136208

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-008

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 1490 | | | P |
| 7439-92-1 | Lead | 5.2 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 27.5 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136209

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-009

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 3480 | | | P |
| 7439-92-1 | Lead | 5.7 | | W | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 20.0 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136210

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-010

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 16100 | | | P |
| 7439-92-1 | Lead | 11.4 | | S | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 71.0 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136211

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-011

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 4660 | | | P |
| 7439-92-1 | Lead | 4.6 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 50.0 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136212

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-012

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 4860 | | | P |
| 7439-92-1 | Lead | 3.6 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 41.0 | | * | P |
| | Cyanide | 5.0 | U | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136213

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-013

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 31.5 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 219000 | | | P |
| 7439-92-1 | Lead | 91.8 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 463 | | * | P |
| | Cyanide | 5.6 | B | | AS |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136214

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-014

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | U | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 224 | | | P |
| 7439-92-1 | Lead | 1.5 | U | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 10.0 | U | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: ART

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

136215

Lab Name: MWL Contract: 4077.0090

Lab Code: Case No.: SAS No.: SDG No.: SD1362

Matrix (soil/water): WATER Lab Sample ID: 1362-015

Level (low/med): LOW Date Received: 05/23/96

% 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 | | | | |
| 7440-36-0 | Antimony | | | | |
| 7440-38-2 | Arsenic | | | | |
| 7440-39-3 | Barium | | | | |
| 7440-41-7 | Beryllium | | | | |
| 7440-43-9 | Cadmium | 5.0 | | | P |
| 7440-70-2 | Calcium | | | | |
| 7440-47-3 | Chromium | | | | |
| 7440-48-4 | Cobalt | | | | |
| 7440-50-8 | Copper | | | | |
| 7439-89-6 | Iron | 30800 | | | P |
| 7439-92-1 | Lead | 131 | | | F |
| 7439-95-4 | Magnesium | | | | |
| 7439-96-5 | Manganese | | | | |
| 7439-97-6 | Mercury | 0.20 | U | | CV |
| 7440-02-0 | Nickel | | | | |
| 7440-09-7 | Potassium | | | | |
| 7782-49-2 | Selenium | | | | |
| 7440-22-4 | Silver | | | | |
| 7440-23-5 | Sodium | | | | |
| 7440-28-0 | Thallium | | | | |
| 7440-62-2 | Vanadium | | | | |
| 7440-66-6 | Zinc | 389 | | * | P |
| | Cyanide | 5.0 | U | | AS |
| | | | | | |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: ART

Comments: