SEVERN TRENT SERVICES

**STL Los Angeles**
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Tel: 714 258 8610
Fax: 714 258 0921
www.stl-inc.com

May 21, 2001

STL LOT NUMBER: **E1E110337**
NELAC Certification Number: 01118CA
PO/CONTRACT: 05160-SEV002-00-S56

Bob Logan
Kennedy/Jenks Consultants
2151 Michelson Drive
Suite 10
Irvine, CA 92612

Dear Mr. Logan,

This report contains the analytical results for the seven samples received under chain of custody by Severn Trent Laboratories (STL Los Angeles) on May 11, 2001. These samples are associated with your BRC former C-6 Torrance Harbor Gateway project.

All applicable quality control procedures met method-specified acceptance criteria. See Project Receipt Checklist for container temperature and conditions. Temperature reading between 2 to 6 degrees Celcius is considered within acceptable criteria. Any matrix related anomaly is footnoted within the report.

STL Los Angeles certifies that the tests performed in our facility meet all the requirements of NELAC. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 7142588610 ext 309.

Sincerely,

Diane Suzuki
Project Manager

cc: Project File

This report contains 000068 pages.

ACCREDITED IN ACCORDANCE WITH nelac

[redacted]

# Chain of Custody Record

SEVERN TRENT SERVICES

**Severn Trent Laboratories, Inc.**

STL-4124 (0700)

| | | | |
|---|---|---|---|
| Client: Kennedy Jenks Consultants | Project Manager: Bob Logan | Date: May 11, 2001 | Chain of Custody Number: 052413 |
| Address: 2151 Michelson #100 | Telephone Number (Area Code)/Fax Number: 949 261 1577 | Lab Number | Page 1 of |
| City: Irvine; State: CA; Zip Code: 92612 | Site Contact: Jay Knight | Lab Contact | |
| Project Name and Location (State): Boeing C-6 | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNOS | HCl | NaOH | ZnAc/NaOH | Analysis: VOCs | TPH | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S24-3-10 | May 11, 01 | 0758 | | | | X | X | | | | | | X | X | |
| S24-3-20 | | 0805 | | | | X | X | | | | | | X | X | |
| S24-3-25 | | 0810 | | | | X | X | | | | | | X | X | |
| S24-3-30 | | 0817 | | | | X | X | | | | | | X | X | |
| S24-3-40 | | 0826 | | | | X | X | | | | | | X | X | |
| S24-3-50 | | 0836 | | | | X | X | | | | | | X | X | |
| S24-3-60 | | 0841 | | | | X | X | | | | | | X | X | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 DAY

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By | 5/11/01 | 1600 | 1. Received By: Edwin Villanueva | 5-11-01 | 1600 |
| 2. Relinquished By: Edwin Villanueva | 5/11/01 | 5:16 | 2. Received By: [illegible] | 5-11-01 | 17:16 |
| 3. Relinquished By | | | 3. Received By | | |

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0122996

# STL – LOS ANGELES
## PROJECT RECEIPT CHECKLIST

Date: 5/11/01

Quantims Lot #: E1E110337
Client Name: Kennedy Jenks
Received by: Pacheco
Delivered by : ☐Client ☐Airborne ☐Fed Ex ☐DHL ☐Ultra-Ex ☐Rey B. ☐UPS ☒DES ☐Other

Quote #: 38629
Project: Boeing C-6
Date/Time Received: 5/11/01 17:16

| | | Initial / Date |
|---|---|---|
| Custody Seal Status: | ☐Intact ☐Broken ☒None | AR 5/11/01 |
| Custody Seal #(s): | ☒No Seal # | |
| Sample Container(s): | ☐STL-LA ☒Client ☐N/A | |
| Temperature(s) (COOLER/BLANK) in °C: | 6°C (CORRECTED TEMP) | |
| Thermometer Used : | ☒IR (Infra-red) ☐Digital (Probe) | |
| Samples: | ☒Intact ☐Broken ☐Other | |
| Anomalies: | ☐No ☐Yes (See Clouseau) | |
| Labeled by | AR | |
| Labeling checked by | | |

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☒NORMAL 5 days
Short-Hold Notification: ☐Ph ☐Wet Chem ☐Metals (Filter/Pres) ☐Encore ☒N/A
Outside Analysis(es) (Test/Lab/Date Sent Out) : – none

********** LEAVE NO BLANK SPACES ; USE N/A **********

| Fraction | 1->7 | | | | | | | | | | PH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VOAh /* | | | | | | | | | | | N/A |
| B Sleeve | 1 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

h:HCl na:Sodium Hydroxide znna:Zinc Acetate/Sodium Hydroxide s: H2SO4 n:HNO3 n/f:HNO3-Field filtered n/fl:HNO3-Lab filtered
CGJ:Clear Glass Jar CGB:Clear Glass Bottle AGJ:Amber Glass Jar AGB:Amber Glass Bottle PB: Poly Bottle E:Encore Sampler V:VOA

* Number of VOA's w/ Headspace present

LOGGED BY/DATE: Pacheco 5/11/01 REVIEWED BY/DATE: [illegible] 5-14-01

PHC Ver. 5 030200 KRF

000003

# EXECUTIVE SUMMARY - Detection Highlights

E1E110337

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **S24_3_10 05/11/01 07:58 001** | | | | |
| C10-C11 | 890 | 500 | mg/kg | SW846 8015B |
| C12-C13 | 2300 | 500 | mg/kg | SW846 8015B |
| C14-C15 | 4700 | 500 | mg/kg | SW846 8015B |
| C16-C17 | 4600 | 500 | mg/kg | SW846 8015B |
| C18-C19 | 3500 | 500 | mg/kg | SW846 8015B |
| C20-C23 | 2700 | 500 | mg/kg | SW846 8015B |
| C24-C27 | 1500 | 500 | mg/kg | SW846 8015B |
| C28-C31 | 700 | 500 | mg/kg | SW846 8015B |
| C32-C35 | 370 J | 500 | mg/kg | SW846 8015B |
| Total Carbon Chain Range | 21000 | 10 | mg/kg | SW846 8015B |
| C6-C8 | 6.2 | 1.0 | mg/kg | SW846 8015B |
| cis-1,2-Dichloroethene | 2200 | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | 360 | 250 | ug/kg | SW846 8260B |
| Trichloroethene | 4000 | 250 | ug/kg | SW846 8260B |
| Toluene | 370 | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | 620 | 250 | ug/kg | SW846 8260B |
| Xylenes (total) | 880 | 250 | ug/kg | SW846 8260B |
| Isopropylbenzene | 270 | 250 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | 790 | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | 1100 | 250 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | 3400 | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 10000 | 250 | ug/kg | SW846 8260B |
| n-Butylbenzene | 3100 | 250 | ug/kg | SW846 8260B |
| **S24_3_20 05/11/01 08:05 002** | | | | |
| C10-C11 | 220 | 200 | mg/kg | SW846 8015B |
| C12-C13 | 620 | 200 | mg/kg | SW846 8015B |
| C14-C15 | 1300 | 200 | mg/kg | SW846 8015B |
| C16-C17 | 1000 | 200 | mg/kg | SW846 8015B |
| C18-C19 | 830 | 200 | mg/kg | SW846 8015B |
| C20-C23 | 1000 | 200 | mg/kg | SW846 8015B |
| C24-C27 | 580 | 200 | mg/kg | SW846 8015B |
| C28-C31 | 200 | 200 | mg/kg | SW846 8015B |
| C32-C35 | 100 J | 200 | mg/kg | SW846 8015B |
| Total Carbon Chain Range | 5900 | 10 | mg/kg | SW846 8015B |
| C6-C8 | 3.4 | 1.0 | mg/kg | SW846 8015B |
| cis-1,2-Dichloroethene | 310 | 250 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | 240 J | 250 | ug/kg | SW846 8260B |
| Trichloroethene | 11000 | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | 450 | 250 | ug/kg | SW846 8260B |
| Xylenes (total) | 370 | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | 340 | 250 | ug/kg | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

E1E110337

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **S24_3_20 05/11/01 08:05 002** | | | | |
| 1,3,5-Trimethylbenzene | 1200 | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | 5200 | 250 | ug/kg | SW846 8260B |
| n-Butylbenzene | 1400 | 250 | ug/kg | SW846 8260B |
| **S24_3_25 05/11/01 08:10 003** | | | | |
| C12-C13 | 270 | 200 | mg/kg | SW846 8015B |
| C14-C15 | 560 | 200 | mg/kg | SW846 8015B |
| C16-C17 | 850 | 200 | mg/kg | SW846 8015B |
| C18-C19 | 880 | 200 | mg/kg | SW846 8015B |
| C20-C23 | 1700 | 200 | mg/kg | SW846 8015B |
| C24-C27 | 1900 | 200 | mg/kg | SW846 8015B |
| C28-C31 | 910 | 200 | mg/kg | SW846 8015B |
| C32-C35 | 540 | 200 | mg/kg | SW846 8015B |
| C36-C39 | 190 J | 200 | mg/kg | SW846 8015B |
| Total Carbon Chain Range | 7800 | 10 | mg/kg | SW846 8015B |
| C6-C8 | 5.5 | 1.0 | mg/kg | SW846 8015B |
| cis-1,2-Dichloroethene | 260 J | 500 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | 730 | 500 | ug/kg | SW846 8260B |
| Trichloroethene | 24000 | 500 | ug/kg | SW846 8260B |
| **S24_3_40 05/11/01 08:26 005** | | | | |
| C14-C15 | 6.4 J | 10 | mg/kg | SW846 8015B |
| C16-C17 | 6.9 J | 10 | mg/kg | SW846 8015B |
| C18-C19 | 6.2 J | 10 | mg/kg | SW846 8015B |
| C20-C23 | 5.3 J | 10 | mg/kg | SW846 8015B |
| Total Carbon Chain Range | 36 | 10 | mg/kg | SW846 8015B |
| 1,1-Dichloroethane | 10 | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | 16 | 5.0 | ug/kg | SW846 8260B |
| Chloroform | 2.3 J | 5.0 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | 19 | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | 220 | 5.0 | ug/kg | SW846 8260B |
| **S24_3_50 05/11/01 08:36 006** | | | | |
| C12-C13 | 6.2 J | 10 | mg/kg | SW846 8015B |
| C14-C15 | 11 | 10 | mg/kg | SW846 8015B |
| C16-C17 | 10 | 10 | mg/kg | SW846 8015B |
| C18-C19 | 8.9 J | 10 | mg/kg | SW846 8015B |
| C20-C23 | 10 | 10 | mg/kg | SW846 8015B |
| Total Carbon Chain Range | 56 | 10 | mg/kg | SW846 8015B |
| 1,1-Dichloroethane | 6.6 J | 25 | ug/kg | SW846 8260B |

(Continued on next page)

# EXECUTIVE SUMMARY - Detection Highlights

E1E110337

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **S24_3_50 05/11/01 08:36 006** | | | | |
| Trichloroethene | 450 | 25 | ug/kg | SW846 8260B |
| **S24_3_60 05/11/01 08:41 007** | | | | |
| Trichloroethene | 180 | 5.0 | ug/kg | SW846 8260B |

# METHODS SUMMARY

**E1E110337**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| Extractable Petroleum Hydrocarbons | SW846 8015B | SANA AUTO-SHAKE |
| Volatile Organics by GC/MS | SW846 8260B | SW846 5030 |
| Volatile Petroleum Hydrocarbons | SW846 8015B | SW846 5030 |

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

E1E110337

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| EC9JE | 001 | S24_3_10 | 05/11/01 | 07:58 |
| EC9JF | 002 | S24_3_20 | 05/11/01 | 08:05 |
| EC9JG | 003 | S24_3_25 | 05/11/01 | 08:10 |
| EC9JH | 004 | S24_3_30 | 05/11/01 | 08:17 |
| EC9JJ | 005 | S24_3_40 | 05/11/01 | 08:26 |
| EC9JK | 006 | S24_3_50 | 05/11/01 | 08:36 |
| EC9JL | 007 | S24_3_60 | 05/11/01 | 08:41 |

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_10

GC Semivolatiles

Lot-Sample #...: E1E110337-001
Date Sampled...: 05/11/01 07:58
Prep Date.....: 05/14/01
Prep Batch #...: 1134474
Dilution Factor: 50
Analyst ID.....: 356074

Work Order #...: EC9JE1AC
Date Received..: 05/11/01 17:16
Analysis Date..: 05/16/01
Analysis Time..: 15:01

Instrument ID..: G02
Method.....: SW846 8015B

Matrix.....: SOLID
MS Run #.....: 1134245

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 500 | mg/kg | 250 |
| C10-C11 | 890 | 500 | mg/kg | 250 |
| C12-C13 | 2300 | 500 | mg/kg | 250 |
| C14-C15 | 4700 | 500 | mg/kg | 250 |
| C16-C17 | 4600 | 500 | mg/kg | 250 |
| C18-C19 | 3500 | 500 | mg/kg | 250 |
| C20-C23 | 2700 | 500 | mg/kg | 250 |
| C24-C27 | 1500 | 500 | mg/kg | 250 |
| C28-C31 | 700 | 500 | mg/kg | 250 |
| C32-C35 | 370 J | 500 | mg/kg | 250 |
| C36-C39 | ND | 500 | mg/kg | 250 |
| C40+ | ND | 10 | mg/kg | 250 |
| Total Carbon Chain Range | 21000 | 10 | mg/kg | 250 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 189 I,* | (60 - 130) |

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_10

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample #...: | E1E110337-001 | Work Order #...: | EC9JE1AD | Matrix.....: | SOLID |
| Date Sampled...: | 05/11/01 07:58 | Date Received..: | 05/11/01 17:16 | MS Run #.....: | 1135240 |
| Prep Date.....: | 05/14/01 | Analysis Date..: | 05/14/01 | | |
| Prep Batch #...: | 1135429 | Analysis Time..: | 15:04 | | |
| Dilution Factor: | 1 | | | | |
| Analyst ID.....: | 001464 | Instrument ID..: | G16 | | |
| | | Method.....: | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | 6.2 | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 140 * | (60 - 130) |

**NOTE(S):**

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

* Surrogate recovery is outside stated control limits.

Unknown hydrocarbon pattern.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_10

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-001
**Date Sampled...:** 05/11/01 07:58
**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137297
**Dilution Factor:** 1
**Analyst ID.....:** 004648

**Work Order #...:** EC9JE1AA
**Date Received..:** 05/11/01 17:16
**Analysis Date..:** 05/17/01
**Analysis Time..:** 17:19

**Instrument ID..:** MSG
**Method.....:** SW846 8260B

**Matrix.....:** SOLID
**MS Run #.....:** 1137161

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 500 | ug/kg | 170 |
| Chloromethane | ND | 500 | ug/kg | 200 |
| Vinyl chloride | ND | 500 | ug/kg | 150 |
| Bromomethane | ND | 500 | ug/kg | 250 |
| Chloroethane | ND | 500 | ug/kg | 250 |
| Trichlorofluoromethane | ND | 500 | ug/kg | 70 |
| Acrolein | ND | 5000 | ug/kg | 2000 |
| 1,1-Dichloroethene | ND | 250 | ug/kg | 120 |
| Iodomethane | ND | 500 | ug/kg | 250 |
| Acetone | ND | 1200 | ug/kg | 400 |
| Carbon disulfide | ND | 250 | ug/kg | 100 |
| Methylene chloride | ND | 250 | ug/kg | 50 |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | 120 |
| Acrylonitrile | ND | 2500 | ug/kg | 2000 |
| Methyl tert-butyl ether | ND | 250 | ug/kg | 100 |
| 1,1-Dichloroethane | ND | 250 | ug/kg | 100 |
| Vinyl acetate | ND | 500 | ug/kg | 250 |
| 2,2-Dichloropropane | ND | 250 | ug/kg | 60 |
| **cis-1,2-Dichloroethene** | **2200** | **250** | **ug/kg** | **100** |
| 2-Butanone | ND | 1200 | ug/kg | 500 |
| Bromochloromethane | ND | 250 | ug/kg | 75 |
| Chloroform | ND | 250 | ug/kg | 70 |
| Tetrahydrofuran | ND | 1000 | ug/kg | 500 |
| **1,1,1-Trichloroethane** | **360** | **250** | **ug/kg** | **70** |
| 1,1-Dichloropropene | ND | 250 | ug/kg | 100 |
| Carbon tetrachloride | ND | 250 | ug/kg | 60 |
| Benzene | ND | 250 | ug/kg | 100 |
| 1,2-Dichloroethane | ND | 250 | ug/kg | 70 |
| **Trichloroethene** | **4000** | **250** | **ug/kg** | **60** |
| 1,2-Dichloropropane | ND | 250 | ug/kg | 100 |
| Bromodichloromethane | ND | 250 | ug/kg | 100 |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | 250 |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | 100 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 400 |
| **Toluene** | **370** | **250** | **ug/kg** | **60** |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | 70 |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | 100 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_10

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-001 **Work Order #...:** EC9JE1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 250 | ug/kg | 80 |
| 2-Hexanone | ND | 1200 | ug/kg | 300 |
| Dibromochloromethane | ND | 250 | ug/kg | 100 |
| 1,2-Dibromoethane | ND | 250 | ug/kg | 70 |
| Chlorobenzene | ND | 250 | ug/kg | 100 |
| **Ethylbenzene** | **620** | **250** | **ug/kg** | **70** |
| **Xylenes (total)** | **880** | **250** | **ug/kg** | **170** |
| Styrene | ND | 500 | ug/kg | 100 |
| Bromoform | ND | 250 | ug/kg | 100 |
| **Isopropylbenzene** | **270** | **250** | **ug/kg** | **120** |
| **p-Isopropyltoluene** | **790** | **250** | **ug/kg** | **70** |
| Bromobenzene | ND | 250 | ug/kg | 70 |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | 50 |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | 100 |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg | 110 |
| **n-Propylbenzene** | **1100** | **250** | **ug/kg** | **110** |
| 2-Chlorotoluene | ND | 250 | ug/kg | 70 |
| 4-Chlorotoluene | ND | 250 | ug/kg | 70 |
| **1,3,5-Trimethylbenzene** | **3400** | **250** | **ug/kg** | **120** |
| tert-Butylbenzene | ND | 250 | ug/kg | 70 |
| **1,2,4-Trimethylbenzene** | **10000** | **250** | **ug/kg** | **70** |
| sec-Butylbenzene | ND | 250 | ug/kg | 70 |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | 70 |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | 100 |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | 100 |
| **n-Butylbenzene** | **3100** | **250** | **ug/kg** | **70** |
| 1,2-Dibromo-3-chloro-propane | ND | 500 | ug/kg | 150 |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg | 70 |
| Hexachlorobutadiene | ND | 250 | ug/kg | 70 |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | 70 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 89 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 111 | (60 - 140) |
| Toluene-d8 | 94 | (60 - 140) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_20

GC Semivolatiles

Lot-Sample #...: E1E110337-002
Date Sampled...: 05/11/01 08:05
Prep Date.....: 05/14/01
Prep Batch #...: 1134474
Dilution Factor: 20
Analyst ID.....: 356074

Work Order #...: EC9JF1AC
Date Received..: 05/11/01 17:16
Analysis Date..: 05/16/01
Analysis Time..: 15:40

Instrument ID..: G02
Method.....: SW846 8015B

Matrix.....: SOLID
MS Run #.....: 1134245

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 200 | mg/kg | 100 |
| C10-C11 | 220 | 200 | mg/kg | 100 |
| C12-C13 | 620 | 200 | mg/kg | 100 |
| C14-C15 | 1300 | 200 | mg/kg | 100 |
| C16-C17 | 1000 | 200 | mg/kg | 100 |
| C18-C19 | 830 | 200 | mg/kg | 100 |
| C20-C23 | 1000 | 200 | mg/kg | 100 |
| C24-C27 | 580 | 200 | mg/kg | 100 |
| C28-C31 | 200 | 200 | mg/kg | 100 |
| C32-C35 | 100 J | 200 | mg/kg | 100 |
| C36-C39 | ND | 200 | mg/kg | 100 |
| C40+ | ND | 10 | mg/kg | 100 |
| Total Carbon Chain Range | 5900 | 10 | mg/kg | 100 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 131 I,* | (60 - 130) |

NOTE(S):

I Matrix interference.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_20

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-002 | **Work Order #...:** | EC9JF1AD | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:05 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/14/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 14:35 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| **C6-C8** | **3.4** | **1.0** | **mg/kg** | **0.10** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 92 | (60 - 130) |

**NOTE(S):**

Unknown hydrocarbon pattern.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_20

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-002
**Date Sampled...:** 05/11/01 08:05
**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137297
**Dilution Factor:** 1
**Analyst ID.....:** 004648

**Work Order #...:** EC9JF1AA
**Date Received..:** 05/11/01 17:16
**Analysis Date..:** 05/16/01
**Analysis Time..:** 18:15

**Instrument ID..:** MSG
**Method.....:** SW846 8260B

**Matrix.....:** SOLID
**MS Run #.....:** 1137161

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 500 | ug/kg | 170 |
| Chloromethane | ND | 500 | ug/kg | 200 |
| Vinyl chloride | ND | 500 | ug/kg | 150 |
| Bromomethane | ND | 500 | ug/kg | 250 |
| Chloroethane | ND | 500 | ug/kg | 250 |
| Trichlorofluoromethane | ND | 500 | ug/kg | 70 |
| Acrolein | ND | 5000 | ug/kg | 2000 |
| 1,1-Dichloroethene | ND | 250 | ug/kg | 120 |
| Iodomethane | ND | 500 | ug/kg | 250 |
| Acetone | ND | 1200 | ug/kg | 400 |
| Carbon disulfide | ND | 250 | ug/kg | 100 |
| Methylene chloride | ND | 250 | ug/kg | 50 |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | 120 |
| Acrylonitrile | ND | 2500 | ug/kg | 2000 |
| Methyl tert-butyl ether | ND | 250 | ug/kg | 100 |
| 1,1-Dichloroethane | ND | 250 | ug/kg | 100 |
| Vinyl acetate | ND | 500 | ug/kg | 250 |
| 2,2-Dichloropropane | ND | 250 | ug/kg | 60 |
| **cis-1,2-Dichloroethene** | **310** | **250** | **ug/kg** | **100** |
| 2-Butanone | ND | 1200 | ug/kg | 500 |
| Bromochloromethane | ND | 250 | ug/kg | 75 |
| Chloroform | ND | 250 | ug/kg | 70 |
| Tetrahydrofuran | ND | 1000 | ug/kg | 500 |
| **1,1,1-Trichloroethane** | **240 J** | **250** | **ug/kg** | **70** |
| 1,1-Dichloropropene | ND | 250 | ug/kg | 100 |
| Carbon tetrachloride | ND | 250 | ug/kg | 60 |
| Benzene | ND | 250 | ug/kg | 100 |
| 1,2-Dichloroethane | ND | 250 | ug/kg | 70 |
| **Trichloroethene** | **11000** | **250** | **ug/kg** | **60** |
| 1,2-Dichloropropane | ND | 250 | ug/kg | 100 |
| Bromodichloromethane | ND | 250 | ug/kg | 100 |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | 250 |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | 100 |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | 400 |
| Toluene | ND | 250 | ug/kg | 60 |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | 70 |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | 100 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_20

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-002 **Work Order #...:** EC9JF1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 250 | ug/kg | 80 |
| 2-Hexanone | ND | 1200 | ug/kg | 300 |
| Dibromochloromethane | ND | 250 | ug/kg | 100 |
| 1,2-Dibromoethane | ND | 250 | ug/kg | 70 |
| Chlorobenzene | ND | 250 | ug/kg | 100 |
| **Ethylbenzene** | **450** | **250** | **ug/kg** | **70** |
| **Xylenes (total)** | **370** | **250** | **ug/kg** | **170** |
| Styrene | ND | 500 | ug/kg | 100 |
| Bromoform | ND | 250 | ug/kg | 100 |
| Isopropylbenzene | ND | 250 | ug/kg | 120 |
| p-Isopropyltoluene | ND | 250 | ug/kg | 70 |
| Bromobenzene | ND | 250 | ug/kg | 70 |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | 50 |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | 100 |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg | 110 |
| **n-Propylbenzene** | **340** | **250** | **ug/kg** | **110** |
| 2-Chlorotoluene | ND | 250 | ug/kg | 70 |
| 4-Chlorotoluene | ND | 250 | ug/kg | 70 |
| **1,3,5-Trimethylbenzene** | **1200** | **250** | **ug/kg** | **120** |
| tert-Butylbenzene | ND | 250 | ug/kg | 70 |
| **1,2,4-Trimethylbenzene** | **5200** | **250** | **ug/kg** | **70** |
| sec-Butylbenzene | ND | 250 | ug/kg | 70 |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | 70 |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | 100 |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | 100 |
| **n-Butylbenzene** | **1400** | **250** | **ug/kg** | **70** |
| 1,2-Dibromo-3-chloro-propane | ND | 500 | ug/kg | 150 |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg | 70 |
| Hexachlorobutadiene | ND | 250 | ug/kg | 70 |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | 70 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 89 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 100 | (60 - 140) |
| Toluene-d8 | 93 | (60 - 140) |

**NOTE(S):**

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_25

GC Semivolatiles

Lot-Sample #...: E1E110337-003
Date Sampled...: 05/11/01 08:10
Prep Date.....: 05/14/01
Prep Batch #...: 1134474
Dilution Factor: 20
Analyst ID.....: 356074

Work Order #...: EC9JG1AC
Date Received..: 05/11/01 17:16
Analysis Date..: 05/16/01
Analysis Time..: 17:06

Instrument ID..: G02
Method.....: SW846 8015B

Matrix.....: SOLID
MS Run #.....: 1134245

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 10 | mg/kg | 100 |
| C10-C11 | ND | 200 | mg/kg | 100 |
| C12-C13 | 270 | 200 | mg/kg | 100 |
| C14-C15 | 560 | 200 | mg/kg | 100 |
| C16-C17 | 850 | 200 | mg/kg | 100 |
| C18-C19 | 880 | 200 | mg/kg | 100 |
| C20-C23 | 1700 | 200 | mg/kg | 100 |
| C24-C27 | 1900 | 200 | mg/kg | 100 |
| C28-C31 | 910 | 200 | mg/kg | 100 |
| C32-C35 | 540 | 200 | mg/kg | 100 |
| C36-C39 | 190 J | 200 | mg/kg | 100 |
| C40+ | ND | 200 | mg/kg | 100 |
| Total Carbon Chain Range | 7800 | 10 | mg/kg | 100 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 361 I,* | (60 - 130) |

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_25

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample #...: | E1E110337-003 | Work Order #...: | EC9JG1AD | Matrix.....: | SOLID |
| Date Sampled...: | 05/11/01 08:10 | Date Received..: | 05/11/01 17:16 | MS Run #.....: | 1135240 |
| Prep Date.....: | 05/14/01 | Analysis Date..: | 05/14/01 | | |
| Prep Batch #...: | 1135429 | Analysis Time..: | 16:05 | | |
| Dilution Factor: | 1 | | | | |
| Analyst ID.....: | 001464 | Instrument ID..: | G16 | | |
| | | Method.....: | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | 5.5 | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 95 | (60 - 130) |

NOTE(S):

Unknown peaks were detected.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_25

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-003
**Date Sampled...:** 05/11/01 08:10
**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137297
**Dilution Factor:** 2
**Analyst ID.....:** 004648

**Work Order #...:** EC9JG1AA
**Date Received..:** 05/11/01 17:16
**Analysis Date..:** 05/17/01
**Analysis Time..:** 11:32

**Instrument ID..:** MSG
**Method.....:** SW846 8260B

**Matrix.....:** SOLID
**MS Run #.....:** 1137161

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 1000 | ug/kg | 340 |
| Chloromethane | ND | 1000 | ug/kg | 400 |
| Vinyl chloride | ND | 1000 | ug/kg | 300 |
| Bromomethane | ND | 1000 | ug/kg | 500 |
| Chloroethane | ND | 1000 | ug/kg | 500 |
| Trichlorofluoromethane | ND | 1000 | ug/kg | 140 |
| Acrolein | ND | 10000 | ug/kg | 4000 |
| 1,1-Dichloroethene | ND | 500 | ug/kg | 240 |
| Iodomethane | ND | 1000 | ug/kg | 500 |
| Acetone | ND | 2500 | ug/kg | 800 |
| Carbon disulfide | ND | 500 | ug/kg | 200 |
| Methylene chloride | ND | 500 | ug/kg | 100 |
| trans-1,2-Dichloroethene | ND | 500 | ug/kg | 240 |
| Acrylonitrile | ND | 5000 | ug/kg | 4000 |
| Methyl tert-butyl ether | ND | 500 | ug/kg | 200 |
| 1,1-Dichloroethane | ND | 500 | ug/kg | 200 |
| Vinyl acetate | ND | 1000 | ug/kg | 500 |
| 2,2-Dichloropropane | ND | 500 | ug/kg | 120 |
| **cis-1,2-Dichloroethene** | **260 J** | **500** | **ug/kg** | **200** |
| 2-Butanone | ND | 2500 | ug/kg | 1000 |
| Bromochloromethane | ND | 500 | ug/kg | 150 |
| Chloroform | ND | 500 | ug/kg | 140 |
| Tetrahydrofuran | ND | 2000 | ug/kg | 1000 |
| **1,1,1-Trichloroethane** | **730** | **500** | **ug/kg** | **140** |
| 1,1-Dichloropropene | ND | 500 | ug/kg | 200 |
| Carbon tetrachloride | ND | 500 | ug/kg | 120 |
| Benzene | ND | 500 | ug/kg | 200 |
| 1,2-Dichloroethane | ND | 500 | ug/kg | 140 |
| **Trichloroethene** | **24000** | **500** | **ug/kg** | **120** |
| 1,2-Dichloropropane | ND | 500 | ug/kg | 200 |
| Bromodichloromethane | ND | 500 | ug/kg | 200 |
| 2-Chloroethyl vinyl ether | ND | 1000 | ug/kg | 500 |
| cis-1,3-Dichloropropene | ND | 500 | ug/kg | 200 |
| 4-Methyl-2-pentanone | ND | 2500 | ug/kg | 800 |
| Toluene | ND | 500 | ug/kg | 120 |
| trans-1,3-Dichloropropene | ND | 500 | ug/kg | 140 |
| 1,1,2-Trichloroethane | ND | 500 | ug/kg | 200 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_25

GC/MS Volatiles

Lot-Sample #...: E1E110337-003 Work Order #...: EC9JG1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 500 | ug/kg | 160 |
| 2-Hexanone | ND | 2500 | ug/kg | 600 |
| Dibromochloromethane | ND | 500 | ug/kg | 200 |
| 1,2-Dibromoethane | ND | 500 | ug/kg | 140 |
| Chlorobenzene | ND | 500 | ug/kg | 200 |
| Ethylbenzene | ND | 500 | ug/kg | 140 |
| Xylenes (total) | ND | 500 | ug/kg | 340 |
| Styrene | ND | 1000 | ug/kg | 200 |
| Bromoform | ND | 500 | ug/kg | 200 |
| Isopropylbenzene | ND | 500 | ug/kg | 240 |
| p-Isopropyltoluene | ND | 500 | ug/kg | 140 |
| Bromobenzene | ND | 500 | ug/kg | 140 |
| 1,1,1,2-Tetrachloroethane | ND | 500 | ug/kg | 100 |
| 1,1,2,2-Tetrachloroethane | ND | 500 | ug/kg | 200 |
| 1,2,3-Trichloropropane | ND | 500 | ug/kg | 220 |
| n-Propylbenzene | ND | 500 | ug/kg | 220 |
| 2-Chlorotoluene | ND | 500 | ug/kg | 140 |
| 4-Chlorotoluene | ND | 500 | ug/kg | 140 |
| 1,3,5-Trimethylbenzene | ND | 500 | ug/kg | 240 |
| tert-Butylbenzene | ND | 500 | ug/kg | 140 |
| 1,2,4-Trimethylbenzene | ND | 500 | ug/kg | 140 |
| sec-Butylbenzene | ND | 500 | ug/kg | 140 |
| 1,3-Dichlorobenzene | ND | 500 | ug/kg | 140 |
| 1,4-Dichlorobenzene | ND | 500 | ug/kg | 200 |
| 1,2-Dichlorobenzene | ND | 500 | ug/kg | 200 |
| n-Butylbenzene | ND | 500 | ug/kg | 140 |
| 1,2-Dibromo-3-chloro-propane | ND | 1000 | ug/kg | 300 |
| 1,2,4-Trichloro-benzene | ND | 500 | ug/kg | 140 |
| Hexachlorobutadiene | ND | 500 | ug/kg | 140 |
| 1,2,3-Trichlorobenzene | ND | 500 | ug/kg | 140 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 87 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 101 | (60 - 140) |
| Toluene-d8 | 91 | (60 - 140) |

**NOTE(S):**

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_30

GC Semivolatiles

**Lot-Sample #...:** E1E110337-004 **Work Order #...:** EC9JH1AC **Matrix.....:** SOLID
**Date Sampled...:** 05/11/01 08:17 **Date Received..:** 05/11/01 17:16 **MS Run #.....:** 1134245
**Prep Date.....:** 05/14/01 **Analysis Date..:** 05/16/01
**Prep Batch #...:** 1134474 **Analysis Time..:** 00:47
**Dilution Factor:** 1
**Analyst ID.....:** 356074 **Instrument ID..:** G02
**Method.....:** SW846 8015B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 10 | mg/kg | 5.0 |
| C10-C11 | ND | 10 | mg/kg | 5.0 |
| C12-C13 | ND | 10 | mg/kg | 5.0 |
| C14-C15 | ND | 10 | mg/kg | 5.0 |
| C16-C17 | ND | 10 | mg/kg | 5.0 |
| C18-C19 | ND | 10 | mg/kg | 5.0 |
| C20-C23 | ND | 10 | mg/kg | 5.0 |
| C24-C27 | ND | 10 | mg/kg | 5.0 |
| C28-C31 | ND | 10 | mg/kg | 5.0 |
| C32-C35 | ND | 10 | mg/kg | 5.0 |
| C36-C39 | ND | 10 | mg/kg | 5.0 |
| C40+ | ND | 10 | mg/kg | 5.0 |
| Total Carbon Chain Range | ND | 10 | mg/kg | 5.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 93 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_30

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-004 | **Work Order #...:** | EC9JH1AD | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:17 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/14/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 16:34 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | ND | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 91 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_30

GC/MS Volatiles

Lot-Sample #...: E1E110337-004
Date Sampled...: 05/11/01 08:17
Prep Date.....: 05/17/01
Prep Batch #...: 1137533
Dilution Factor: 1
Analyst ID.....: 015590

Work Order #...: EC9JH1AA
Date Received..: 05/11/01 17:16
Analysis Date..: 05/17/01
Analysis Time..: 06:06

Instrument ID..: MSG
Method.....: SW846 8260B

Matrix.....: SOLID
MS Run #.....: 1137297

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/kg | 1.0 |
| Chloromethane | ND | 10 | ug/kg | 3.0 |
| Vinyl chloride | ND | 10 | ug/kg | 2.0 |
| Bromomethane | ND | 10 | ug/kg | 2.0 |
| Chloroethane | ND | 10 | ug/kg | 2.0 |
| Trichlorofluoromethane | ND | 10 | ug/kg | 2.0 |
| Acrolein | ND | 100 | ug/kg | 30 |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Iodomethane | ND | 10 | ug/kg | 5.0 |
| Acetone | ND | 25 | ug/kg | 15 |
| Carbon disulfide | ND | 5.0 | ug/kg | 2.0 |
| Methylene chloride | ND | 5.0 | ug/kg | 3.0 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Acrylonitrile | ND | 50 | ug/kg | 30 |
| Methyl tert-butyl ether | ND | 5.0 | ug/kg | 1.0 |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | 1.0 |
| Vinyl acetate | ND | 10 | ug/kg | 5.0 |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | 2.0 |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| 2-Butanone | ND | 25 | ug/kg | 15 |
| Bromochloromethane | ND | 5.0 | ug/kg | 1.0 |
| Chloroform | ND | 5.0 | ug/kg | 1.0 |
| Tetrahydrofuran | ND | 20 | ug/kg | 10 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | 1.0 |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| Carbon tetrachloride | ND | 5.0 | ug/kg | 1.0 |
| Benzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | 1.0 |
| Trichloroethene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | 1.0 |
| Bromodichloromethane | ND | 5.0 | ug/kg | 1.0 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | 10 |
| Toluene | ND | 5.0 | ug/kg | 2.0 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | 3.0 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_30

GC/MS Volatiles

Lot-Sample #...: E1E110337-004 Work Order #...: EC9JH1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 5.0 | ug/kg | 2.0 |
| 2-Hexanone | ND | 25 | ug/kg | 10 |
| Dibromochloromethane | ND | 5.0 | ug/kg | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 | ug/kg | 3.0 |
| Chlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| Ethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| Xylenes (total) | ND | 5.0 | ug/kg | 3.0 |
| Styrene | ND | 10 | ug/kg | 2.0 |
| Bromoform | ND | 5.0 | ug/kg | 3.0 |
| Isopropylbenzene | ND | 5.0 | ug/kg | 2.0 |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | 2.0 |
| Bromobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | 3.0 |
| n-Propylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| tert-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| sec-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| n-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/kg | 3.0 |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | 2.0 |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | 2.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 100 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 101 | (60 - 140) |
| Toluene-d8 | 97 | (70 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_40

GC Semivolatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-005 | **Work Order #...:** | EC9JJ1AC | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:26 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1134245 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/16/01 | | |
| **Prep Batch #...:** | 1134474 | **Analysis Time..:** | 01:26 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 356074 | **Instrument ID..:** | G02 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 10 | mg/kg | 5.0 |
| C10-C11 | ND | 10 | mg/kg | 5.0 |
| C12-C13 | ND | 10 | mg/kg | 5.0 |
| **C14-C15** | **6.4 J** | **10** | **mg/kg** | **5.0** |
| **C16-C17** | **6.9 J** | **10** | **mg/kg** | **5.0** |
| **C18-C19** | **6.2 J** | **10** | **mg/kg** | **5.0** |
| **C20-C23** | **5.3 J** | **10** | **mg/kg** | **5.0** |
| C24-C27 | ND | 10 | mg/kg | 5.0 |
| C28-C31 | ND | 10 | mg/kg | 5.0 |
| C32-C35 | ND | 10 | mg/kg | 5.0 |
| C36-C39 | ND | 10 | mg/kg | 5.0 |
| C40+ | ND | 10 | mg/kg | 5.0 |
| **Total Carbon Chain Range** | **36** | **10** | **mg/kg** | **5.0** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 90 | (60 - 130) |

**NOTE(S):**

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_40

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-005 | **Work Order #...:** | EC9JJ1AD | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:26 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/14/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 17:02 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | ND | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 92 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_40

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-005
**Date Sampled...:** 05/11/01 08:26
**Prep Date.....:** 05/17/01
**Prep Batch #...:** 1137533
**Dilution Factor:** 1
**Analyst ID.....:** 015590

**Work Order #...:** EC9JJ1AA
**Date Received..:** 05/11/01 17:16
**Analysis Date..:** 05/17/01
**Analysis Time..:** 06:39

**Instrument ID..:** MSG
**Method.....:** SW846 8260B

**Matrix.....:** SOLID
**MS Run #.....:** 1137297

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/kg | 1.0 |
| Chloromethane | ND | 10 | ug/kg | 3.0 |
| Vinyl chloride | ND | 10 | ug/kg | 2.0 |
| Bromomethane | ND | 10 | ug/kg | 2.0 |
| Chloroethane | ND | 10 | ug/kg | 2.0 |
| Trichlorofluoromethane | ND | 10 | ug/kg | 2.0 |
| Acrolein | ND | 100 | ug/kg | 30 |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Iodomethane | ND | 10 | ug/kg | 5.0 |
| Acetone | ND | 25 | ug/kg | 15 |
| Carbon disulfide | ND | 5.0 | ug/kg | 2.0 |
| Methylene chloride | ND | 5.0 | ug/kg | 3.0 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Acrylonitrile | ND | 50 | ug/kg | 30 |
| Methyl tert-butyl ether | ND | 5.0 | ug/kg | 1.0 |
| **1,1-Dichloroethane** | **10** | **5.0** | **ug/kg** | **1.0** |
| Vinyl acetate | ND | 10 | ug/kg | 5.0 |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | 2.0 |
| **cis-1,2-Dichloroethene** | **16** | **5.0** | **ug/kg** | **2.0** |
| 2-Butanone | ND | 25 | ug/kg | 15 |
| Bromochloromethane | ND | 5.0 | ug/kg | 1.0 |
| **Chloroform** | **2.3 J** | **5.0** | **ug/kg** | **1.0** |
| Tetrahydrofuran | ND | 20 | ug/kg | 10 |
| **1,1,1-Trichloroethane** | **19** | **5.0** | **ug/kg** | **1.0** |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| Carbon tetrachloride | ND | 5.0 | ug/kg | 1.0 |
| Benzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | 1.0 |
| **Trichloroethene** | **220** | **5.0** | **ug/kg** | **2.0** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | 1.0 |
| Bromodichloromethane | ND | 5.0 | ug/kg | 1.0 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | 10 |
| Toluene | ND | 5.0 | ug/kg | 2.0 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | 3.0 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_40

GC/MS Volatiles

Lot-Sample #...: E1E110337-005 Work Order #...: EC9JJ1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 5.0 | ug/kg | 2.0 |
| 2-Hexanone | ND | 25 | ug/kg | 10 |
| Dibromochloromethane | ND | 5.0 | ug/kg | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 | ug/kg | 3.0 |
| Chlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| Ethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| Xylenes (total) | ND | 5.0 | ug/kg | 3.0 |
| Styrene | ND | 10 | ug/kg | 2.0 |
| Bromoform | ND | 5.0 | ug/kg | 3.0 |
| Isopropylbenzene | ND | 5.0 | ug/kg | 2.0 |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | 2.0 |
| Bromobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | 3.0 |
| n-Propylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| tert-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| sec-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| n-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/kg | 3.0 |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | 2.0 |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | 2.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 101 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 95 | (60 - 140) |
| Toluene-d8 | 98 | (70 - 130) |

NOTE(S):

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_50

GC Semivolatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample #...: | E1E110337-006 | Work Order #...: | EC9JK1AC | Matrix.....: | SOLID |
| Date Sampled...: | 05/11/01 08:36 | Date Received..: | 05/11/01 17:16 | MS Run #.....: | 1134245 |
| Prep Date.....: | 05/14/01 | Analysis Date..: | 05/16/01 | | |
| Prep Batch #...: | 1134474 | Analysis Time..: | 03:22 | | |
| Dilution Factor: | 1 | | | | |
| Analyst ID.....: | 356074 | Instrument ID..: | G02 | | |
| | | Method.....: | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 10 | mg/kg | 5.0 |
| C10-C11 | ND | 10 | mg/kg | 5.0 |
| **C12-C13** | **6.2 J** | **10** | **mg/kg** | **5.0** |
| **C14-C15** | **11** | **10** | **mg/kg** | **5.0** |
| **C16-C17** | **10** | **10** | **mg/kg** | **5.0** |
| **C18-C19** | **8.9 J** | **10** | **mg/kg** | **5.0** |
| **C20-C23** | **10** | **10** | **mg/kg** | **5.0** |
| C24-C27 | ND | 10 | mg/kg | 5.0 |
| C28-C31 | ND | 10 | mg/kg | 5.0 |
| C32-C35 | ND | 10 | mg/kg | 5.0 |
| C36-C39 | ND | 10 | mg/kg | 5.0 |
| C40+ | ND | 10 | mg/kg | 5.0 |
| **Total Carbon Chain Range** | **56** | **10** | **mg/kg** | **5.0** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 93 | (60 - 130) |

**NOTE(S):**

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_50

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-006 | **Work Order #...:** | EC9JK1AD | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:36 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/14/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 17:31 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | ND | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 91 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_50

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-006 **Work Order #...:** EC9JK1AA **Matrix.....:** SOLID
**Date Sampled...:** 05/11/01 08:36 **Date Received..:** 05/11/01 17:16 **MS Run #.....:** 1138101
**Prep Date.....:** 05/17/01 **Analysis Date..:** 05/17/01
**Prep Batch #...:** 1138248 **Analysis Time..:** 14:36
**Dilution Factor:** 5
**Analyst ID.....:** 004648 **Instrument ID..:** MSD
**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 50 | ug/kg | 5.0 |
| Chloromethane | ND | 50 | ug/kg | 15 |
| Vinyl chloride | ND | 50 | ug/kg | 10 |
| Bromomethane | ND | 50 | ug/kg | 10 |
| Chloroethane | ND | 50 | ug/kg | 10 |
| Trichlorofluoromethane | ND | 50 | ug/kg | 10 |
| Acrolein | ND | 500 | ug/kg | 150 |
| 1,1-Dichloroethene | ND | 25 | ug/kg | 10 |
| Iodomethane | ND | 50 | ug/kg | 25 |
| Acetone | ND | 120 | ug/kg | 75 |
| Carbon disulfide | ND | 25 | ug/kg | 10 |
| Methylene chloride | ND | 25 | ug/kg | 15 |
| trans-1,2-Dichloroethene | ND | 25 | ug/kg | 10 |
| Acrylonitrile | ND | 250 | ug/kg | 150 |
| Methyl tert-butyl ether | ND | 25 | ug/kg | 5.0 |
| **1,1-Dichloroethane** | **6.6 J** | **25** | **ug/kg** | **5.0** |
| Vinyl acetate | ND | 50 | ug/kg | 25 |
| 2,2-Dichloropropane | ND | 25 | ug/kg | 10 |
| cis-1,2-Dichloroethene | ND | 25 | ug/kg | 10 |
| 2-Butanone | ND | 120 | ug/kg | 75 |
| Bromochloromethane | ND | 25 | ug/kg | 5.0 |
| Chloroform | ND | 25 | ug/kg | 5.0 |
| Tetrahydrofuran | ND | 100 | ug/kg | 50 |
| 1,1,1-Trichloroethane | ND | 25 | ug/kg | 5.0 |
| 1,1-Dichloropropene | ND | 25 | ug/kg | 5.0 |
| Carbon tetrachloride | ND | 25 | ug/kg | 5.0 |
| Benzene | ND | 25 | ug/kg | 10 |
| 1,2-Dichloroethane | ND | 25 | ug/kg | 5.0 |
| **Trichloroethene** | **450** | **25** | **ug/kg** | **10** |
| 1,2-Dichloropropane | ND | 25 | ug/kg | 5.0 |
| Bromodichloromethane | ND | 25 | ug/kg | 5.0 |
| 2-Chloroethyl vinyl ether | ND | 50 | ug/kg | 25 |
| cis-1,3-Dichloropropene | ND | 25 | ug/kg | 5.0 |
| 4-Methyl-2-pentanone | ND | 120 | ug/kg | 50 |
| Toluene | ND | 25 | ug/kg | 10 |
| trans-1,3-Dichloropropene | ND | 25 | ug/kg | 15 |
| 1,1,2-Trichloroethane | ND | 25 | ug/kg | 15 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_50

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-006 **Work Order #...:** EC9JK1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 25 | ug/kg | 10 |
| 2-Hexanone | ND | 120 | ug/kg | 50 |
| Dibromochloromethane | ND | 25 | ug/kg | 25 |
| 1,2-Dibromoethane | ND | 25 | ug/kg | 15 |
| Chlorobenzene | ND | 25 | ug/kg | 10 |
| Ethylbenzene | ND | 25 | ug/kg | 10 |
| Xylenes (total) | ND | 25 | ug/kg | 15 |
| Styrene | ND | 50 | ug/kg | 10 |
| Bromoform | ND | 25 | ug/kg | 15 |
| Isopropylbenzene | ND | 25 | ug/kg | 10 |
| p-Isopropyltoluene | ND | 25 | ug/kg | 10 |
| Bromobenzene | ND | 25 | ug/kg | 10 |
| 1,1,1,2-Tetrachloroethane | ND | 25 | ug/kg | 15 |
| 1,1,2,2-Tetrachloroethane | ND | 25 | ug/kg | 15 |
| 1,2,3-Trichloropropane | ND | 25 | ug/kg | 15 |
| n-Propylbenzene | ND | 25 | ug/kg | 10 |
| 2-Chlorotoluene | ND | 25 | ug/kg | 10 |
| 4-Chlorotoluene | ND | 25 | ug/kg | 10 |
| 1,3,5-Trimethylbenzene | ND | 25 | ug/kg | 10 |
| tert-Butylbenzene | ND | 25 | ug/kg | 10 |
| 1,2,4-Trimethylbenzene | ND | 25 | ug/kg | 10 |
| sec-Butylbenzene | ND | 25 | ug/kg | 10 |
| 1,3-Dichlorobenzene | ND | 25 | ug/kg | 10 |
| 1,4-Dichlorobenzene | ND | 25 | ug/kg | 10 |
| 1,2-Dichlorobenzene | ND | 25 | ug/kg | 10 |
| n-Butylbenzene | ND | 25 | ug/kg | 10 |
| 1,2-Dibromo-3-chloro-propane | ND | 50 | ug/kg | 15 |
| 1,2,4-Trichloro-benzene | ND | 25 | ug/kg | 10 |
| Hexachlorobutadiene | ND | 25 | ug/kg | 10 |
| 1,2,3-Trichlorobenzene | ND | 25 | ug/kg | 10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 92 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 93 | (60 - 140) |
| Toluene-d8 | 99 | (70 - 130) |

**NOTE(S):**

J Estimated result. Result is less than RL.

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_60

GC Semivolatiles

Lot-Sample #...: E1E110337-007
Date Sampled...: 05/11/01 08:41
Prep Date.....: 05/14/01
Prep Batch #...: 1134474
Dilution Factor: 1
Analyst ID.....: 356074

Work Order #...: EC9JL1AC
Date Received..: 05/11/01 17:16
Analysis Date..: 05/16/01
Analysis Time..: 04:01

Instrument ID..: G02
Method.....: SW846 8015B

Matrix.....: SOLID
MS Run #.....: 1134245

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C8-C9 | ND | 10 | mg/kg | 5.0 |
| C10-C11 | ND | 10 | mg/kg | 5.0 |
| C12-C13 | ND | 10 | mg/kg | 5.0 |
| C14-C15 | ND | 10 | mg/kg | 5.0 |
| C16-C17 | ND | 10 | mg/kg | 5.0 |
| C18-C19 | ND | 10 | mg/kg | 5.0 |
| C20-C23 | ND | 10 | mg/kg | 5.0 |
| C24-C27 | ND | 10 | mg/kg | 5.0 |
| C28-C31 | ND | 10 | mg/kg | 5.0 |
| C32-C35 | ND | 10 | mg/kg | 5.0 |
| C36-C39 | ND | 10 | mg/kg | 5.0 |
| C40+ | ND | 10 | mg/kg | 5.0 |
| Total Carbon Chain Range | ND | 10 | mg/kg | 5.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 89 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_60

GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E1E110337-007 | **Work Order #...:** | EC9JL1AD | **Matrix.....:** | SOLID |
| **Date Sampled...:** | 05/11/01 08:41 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/14/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 17:59 | | |
| **Dilution Factor:** | 1 | | | | |
| **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 | | |
| | | **Method.....:** | SW846 8015B | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| C6-C8 | ND | 1.0 | mg/kg | 0.10 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 85 | (60 - 130) |

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_60

GC/MS Volatiles

**Lot-Sample #...:** E1E110337-007 **Work Order #...:** EC9JL1AA **Matrix.....:** SOLID
**Date Sampled...:** 05/11/01 08:41 **Date Received..:** 05/11/01 17:16 **MS Run #.....:** 1137297
**Prep Date.....:** 05/17/01 **Analysis Date..:** 05/17/01
**Prep Batch #...:** 1137533 **Analysis Time..:** 07:44
**Dilution Factor:** 1
**Analyst ID.....:** 015590 **Instrument ID..:** MSG
**Method.....:** SW846 8260B

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/kg | 1.0 |
| Chloromethane | ND | 10 | ug/kg | 3.0 |
| Vinyl chloride | ND | 10 | ug/kg | 2.0 |
| Bromomethane | ND | 10 | ug/kg | 2.0 |
| Chloroethane | ND | 10 | ug/kg | 2.0 |
| Trichlorofluoromethane | ND | 10 | ug/kg | 2.0 |
| Acrolein | ND | 100 | ug/kg | 30 |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Iodomethane | ND | 10 | ug/kg | 5.0 |
| Acetone | ND | 25 | ug/kg | 15 |
| Carbon disulfide | ND | 5.0 | ug/kg | 2.0 |
| Methylene chloride | ND | 5.0 | ug/kg | 3.0 |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| Acrylonitrile | ND | 50 | ug/kg | 30 |
| Methyl tert-butyl ether | ND | 5.0 | ug/kg | 1.0 |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | 1.0 |
| Vinyl acetate | ND | 10 | ug/kg | 5.0 |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | 2.0 |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | 2.0 |
| 2-Butanone | ND | 25 | ug/kg | 15 |
| Bromochloromethane | ND | 5.0 | ug/kg | 1.0 |
| Chloroform | ND | 5.0 | ug/kg | 1.0 |
| Tetrahydrofuran | ND | 20 | ug/kg | 10 |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | 1.0 |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| Carbon tetrachloride | ND | 5.0 | ug/kg | 1.0 |
| Benzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | 1.0 |
| **Trichloroethene** | **180** | **5.0** | **ug/kg** | **2.0** |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | 1.0 |
| Bromodichloromethane | ND | 5.0 | ug/kg | 1.0 |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | 1.0 |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | 10 |
| Toluene | ND | 5.0 | ug/kg | 2.0 |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | 3.0 |

(Continued on next page)

KENNEDY/JENKS CONSULTANTS

Client Sample ID: S24_3_60

GC/MS Volatiles

Lot-Sample #...: E1E110337-007 Work Order #...: EC9JL1AA Matrix.....: SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| Tetrachloroethene | ND | 5.0 | ug/kg | 2.0 |
| 2-Hexanone | ND | 25 | ug/kg | 10 |
| Dibromochloromethane | ND | 5.0 | ug/kg | 5.0 |
| 1,2-Dibromoethane | ND | 5.0 | ug/kg | 3.0 |
| Chlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| Ethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| Xylenes (total) | ND | 5.0 | ug/kg | 3.0 |
| Styrene | ND | 10 | ug/kg | 2.0 |
| Bromoform | ND | 5.0 | ug/kg | 3.0 |
| Isopropylbenzene | ND | 5.0 | ug/kg | 2.0 |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | 2.0 |
| Bromobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | 3.0 |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | 3.0 |
| n-Propylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | 2.0 |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| tert-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | 2.0 |
| sec-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | 2.0 |
| n-Butylbenzene | ND | 5.0 | ug/kg | 2.0 |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/kg | 3.0 |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | 2.0 |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | 2.0 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 113 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 110 | (60 - 140) |
| Toluene-d8 | 112 | (70 - 130) |

# QC DATA ASSOCIATION SUMMARY

E1E110337

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137297 | 1137161 |
| 002 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137297 | 1137161 |
| 003 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137297 | 1137161 |
| 004 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137533 | 1137297 |
| 005 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137533 | 1137297 |
| 006 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1138248 | 1138101 |
| 007 | SOLID | SW846 8015B | | 1134474 | 1134245 |
| | SOLID | SW846 8015B | | 1135429 | 1135240 |
| | SOLID | SW846 8260B | | 1137533 | 1137297 |

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E140000-474
**Analysis Date..:** 05/15/01
**Dilution Factor:** 1

**Work Order #...:** EDCRM1AA
**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1134474
**Analyst ID.....:** 356074

**Matrix.....:** SOLID
**Analysis Time..:** 18:57
**Instrument ID..:** G02

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| ******* INVALID DATA ON FOLLOWING LINE ******* | | | | |
| C8-C9 | ND | 10 | mg/kg | SW846 8015B |
| C10-C11 | ND | 10 | mg/kg | SW846 8015B |
| C12-C13 | ND | 10 | mg/kg | SW846 8015B |
| C14-C15 | ND | 10 | mg/kg | SW846 8015B |
| C16-C17 | ND | 10 | mg/kg | SW846 8015B |
| C18-C19 | ND | 10 | mg/kg | SW846 8015B |
| C20-C23 | ND | 10 | mg/kg | SW846 8015B |
| C24-C27 | ND | 10 | mg/kg | SW846 8015B |
| C28-C31 | ND | 10 | mg/kg | SW846 8015B |
| C32-C35 | ND | 10 | mg/kg | SW846 8015B |
| C36-C39 | ND | 10 | mg/kg | SW846 8015B |
| ******* INVALID DATA ON FOLLOWING LINE ******* | | | | |
| C40+ | ND | 10 | mg/kg | SW846 8015B |
| ******* INVALID DATA ON FOLLOWING LINE ******* | | | | |
| Total Carbon Chain Range | ND | 10 | mg/kg | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 84 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E140000-474

**Analysis Date..:** 05/15/01
**Dilution Factor:** 1

**Work Order #...:** EDCRM1AD

**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1134474

**Analyst ID.....:** 356074

**Matrix.....:** SOLID

**Analysis Time..:** 12:26
**Instrument ID..:** G03

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| ******* INVALID DATA ON FOLLOWING LINE | | ******* | | |
| C8-C9 | ND | 10 | mg/kg | SW846 8015B |
| C10-C11 | ND | 10 | mg/kg | SW846 8015B |
| C12-C13 | ND | 10 | mg/kg | SW846 8015B |
| C14-C15 | ND | 10 | mg/kg | SW846 8015B |
| C16-C17 | ND | 10 | mg/kg | SW846 8015B |
| C18-C19 | ND | 10 | mg/kg | SW846 8015B |
| C20-C23 | ND | 10 | mg/kg | SW846 8015B |
| C24-C27 | ND | 10 | mg/kg | SW846 8015B |
| C28-C31 | ND | 10 | mg/kg | SW846 8015B |
| C32-C35 | ND | 10 | mg/kg | SW846 8015B |
| C36-C39 | ND | 10 | mg/kg | SW846 8015B |
| ******* INVALID DATA ON FOLLOWING LINE | | ******* | | |
| C40+ | ND | 10 | mg/kg | SW846 8015B |
| ******* INVALID DATA ON FOLLOWING LINE | | ******* | | |
| Total Carbon Chain Range | ND | 10 | mg/kg | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 68 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC Volatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E150000-429

**Analysis Date..:** 05/14/01
**Dilution Factor:** 1

**Work Order #...:** EDELX1AA

**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1135429

**Analyst ID.....:** 001464

**Matrix.....:** SOLID

**Analysis Time..:** 12:11
**Instrument ID..:** G16

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| C6-C8 | ND | 1.0 | mg/kg | SW846 8015B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 86 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E170000-297

**Analysis Date..:** 05/16/01
**Dilution Factor:** 1

**Work Order #...:** EDH5D1AA

**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137297

**Analyst ID.....:** 004648

**Matrix.....:** SOLID

**Analysis Time..:** 11:15
**Instrument ID..:** MSG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 500 | ug/kg | SW846 8260B |
| Chloromethane | ND | 500 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 500 | ug/kg | SW846 8260B |
| Bromomethane | ND | 500 | ug/kg | SW846 8260B |
| Chloroethane | ND | 500 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 500 | ug/kg | SW846 8260B |
| Acrolein | ND | 5000 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Iodomethane | ND | 500 | ug/kg | SW846 8260B |
| Acetone | ND | 1200 | ug/kg | SW846 8260B |
| Carbon disulfide | ND | 250 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 250 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 2500 | ug/kg | SW846 8260B |
| Methyl tert-butyl ether | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Vinyl acetate | ND | 500 | ug/kg | SW846 8260B |
| 2,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 2-Butanone | ND | 1200 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 250 | ug/kg | SW846 8260B |
| Chloroform | ND | 250 | ug/kg | SW846 8260B |
| Tetrahydrofuran | ND | 1000 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 250 | ug/kg | SW846 8260B |
| Benzene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 250 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 250 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 500 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| 4-Methyl-2-pentanone | ND | 1200 | ug/kg | SW846 8260B |
| Toluene | ND | 250 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 250 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 250 | ug/kg | SW846 8260B |
| 2-Hexanone | ND | 1200 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 250 | ug/kg | SW846 8260B |

(Continued on next page)

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDH5D1AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,2-Dibromoethane | ND | 250 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| Xylenes (total) | ND | 250 | ug/kg | SW846 8260B |
| Styrene | ND | 500 | ug/kg | SW846 8260B |
| Bromoform | ND | 250 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 250 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 250 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 250 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 250 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 250 | ug/kg | SW846 8260B |
| 2-Chlorotoluene | ND | 250 | ug/kg | SW846 8260B |
| 4-Chlorotoluene | ND | 250 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 250 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 250 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 250 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloro-propane | ND | 500 | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 250 | ug/kg | SW846 8260B |
| Hexachlorobutadiene | ND | 250 | ug/kg | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 250 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 91 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 110 | (60 - 140) |
| Toluene-d8 | 97 | (60 - 140) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E170000-533

**Analysis Date..:** 05/16/01
**Dilution Factor:** 1

**Work Order #...:** EDJ561AA

**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137533

**Analyst ID.....:** 015590

**Matrix.....:** SOLID

**Analysis Time..:** 21:56
**Instrument ID..:** MSG

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/kg | SW846 8260B |
| Chloromethane | ND | 10 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 10 | ug/kg | SW846 8260B |
| Bromomethane | ND | 10 | ug/kg | SW846 8260B |
| Chloroethane | ND | 10 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 10 | ug/kg | SW846 8260B |
| Acrolein | ND | 100 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Iodomethane | ND | 10 | ug/kg | SW846 8260B |
| Acetone | ND | 25 | ug/kg | SW846 8260B |
| Carbon disulfide | ND | 5.0 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 50 | ug/kg | SW846 8260B |
| Methyl tert-butyl ether | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Vinyl acetate | ND | 10 | ug/kg | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Butanone | ND | 25 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Chloroform | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrahydrofuran | ND | 20 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/kg | SW846 8260B |
| Benzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | SW846 8260B |
| Toluene | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Hexanone | ND | 25 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |

(Continued on next page)

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDJ561AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,2-Dibromoethane | ND | 5.0 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Xylenes (total) | ND | 5.0 | ug/kg | SW846 8260B |
| Styrene | ND | 10 | ug/kg | SW846 8260B |
| Bromoform | ND | 5.0 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | SW846 8260B |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 104 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 101 | (60 - 140) |
| Toluene-d8 | 104 | (70 - 130) |

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337
**MB Lot-Sample #:** E1E180000-248

**Analysis Date..:** 05/17/01
**Dilution Factor:** 1

**Work Order #...:** EDK471AA

**Prep Date.....:** 05/17/01
**Prep Batch #...:** 1138248

**Analyst ID.....:** 004648

**Matrix.....:** SOLID

**Analysis Time..:** 12:05
**Instrument ID..:** MSD

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Dichlorodifluoromethane | ND | 10 | ug/kg | SW846 8260B |
| Chloromethane | ND | 10 | ug/kg | SW846 8260B |
| Vinyl chloride | ND | 10 | ug/kg | SW846 8260B |
| Bromomethane | ND | 10 | ug/kg | SW846 8260B |
| Chloroethane | ND | 10 | ug/kg | SW846 8260B |
| Trichlorofluoromethane | ND | 10 | ug/kg | SW846 8260B |
| Acrolein | ND | 100 | ug/kg | SW846 8260B |
| 1,1-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Iodomethane | ND | 10 | ug/kg | SW846 8260B |
| Acetone | ND | 25 | ug/kg | SW846 8260B |
| Carbon disulfide | ND | 5.0 | ug/kg | SW846 8260B |
| Methylene chloride | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| Acrylonitrile | ND | 50 | ug/kg | SW846 8260B |
| Methyl tert-butyl ether | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Vinyl acetate | ND | 10 | ug/kg | SW846 8260B |
| 2,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Butanone | ND | 25 | ug/kg | SW846 8260B |
| Bromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| Chloroform | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrahydrofuran | ND | 20 | ug/kg | SW846 8260B |
| 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| Carbon tetrachloride | ND | 5.0 | ug/kg | SW846 8260B |
| Benzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Trichloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| Bromodichloromethane | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Chloroethyl vinyl ether | ND | 10 | ug/kg | SW846 8260B |
| cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| 4-Methyl-2-pentanone | ND | 25 | ug/kg | SW846 8260B |
| Toluene | ND | 5.0 | ug/kg | SW846 8260B |
| trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| Tetrachloroethene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Hexanone | ND | 25 | ug/kg | SW846 8260B |
| Dibromochloromethane | ND | 5.0 | ug/kg | SW846 8260B |

(Continued on next page)

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDK471AA **Matrix.....:** SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| 1,2-Dibromoethane | ND | 5.0 | ug/kg | SW846 8260B |
| Chlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Ethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| Xylenes (total) | ND | 5.0 | ug/kg | SW846 8260B |
| Styrene | ND | 10 | ug/kg | SW846 8260B |
| Bromoform | ND | 5.0 | ug/kg | SW846 8260B |
| Isopropylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| p-Isopropyltoluene | ND | 5.0 | ug/kg | SW846 8260B |
| Bromobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | SW846 8260B |
| n-Propylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 2-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| 4-Chlorotoluene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| tert-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,4-Trimethylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| sec-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |
| n-Butylbenzene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2-Dibromo-3-chloro-propane | ND | 10 | ug/kg | SW846 8260B |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ug/kg | SW846 8260B |
| Hexachlorobutadiene | ND | 5.0 | ug/kg | SW846 8260B |
| 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | SW846 8260B |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 90 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 92 | (60 - 140) |
| Toluene-d8 | 97 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E140000-474
**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1134474
**Dilution Factor:** 1
**Analyst ID.....:** 356074

**Work Order #...:** EDCRM1AC

**Analysis Date..:** 05/15/01
**Analysis Time..:** 19:36
**Instrument ID..:** G02

**Matrix.....:** SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **TPH (as Diesel)** | **250** | **224** | **mg/kg** | **90** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 94 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E140000-474
**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1134474
**Dilution Factor:** 1
**Analyst ID.....:** 356074

**Work Order #...:** EDCRM1AE
**Analysis Date..:** 05/15/01
**Analysis Time..:** 13:05
**Instrument ID..:** G03

**Matrix.....:** SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **TPH (as Diesel)** | **250** | **185** | **mg/kg** | **74** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 74 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC Volatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E150000-429
**Prep Date.....:** 05/14/01
**Prep Batch #...:** 1135429
**Dilution Factor:** 1
**Analyst ID.....:** 001464

**Work Order #...:** EDELX1AC

**Analysis Date..:** 05/14/01
**Analysis Time..:** 11:42
**Instrument ID..:** G16

**Matrix.....:** SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **5.00** | **5.21** | **mg/kg** | **104** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 114 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E170000-297
**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137297
**Dilution Factor:** 1
**Analyst ID.....:** 004648

**Work Order #...:** EDH5D1AC

**Analysis Date..:** 05/16/01
**Analysis Time..:** 10:11
**Instrument ID..:** MSG

**Matrix.....:** SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **2500** | **3000** | **ug/kg** | **120** | **SW846 8260B** |
| **Benzene** | **2500** | **2710** | **ug/kg** | **109** | **SW846 8260B** |
| **Trichloroethene** | **2500** | **2660** | **ug/kg** | **106** | **SW846 8260B** |
| **Toluene** | **2500** | **2420** | **ug/kg** | **97** | **SW846 8260B** |
| **Chlorobenzene** | **2500** | **2470** | **ug/kg** | **99** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 98 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 111 | (60 - 140) |
| Toluene-d8 | 98 | (60 - 140) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDJ561AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E170000-533
**Prep Date.....:** 05/16/01 **Analysis Date..:** 05/16/01
**Prep Batch #...:** 1137533 **Analysis Time..:** 21:23
**Dilution Factor:** 1 **Instrument ID..:** MSG
**Analyst ID.....:** 015590

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **50.0** | **51.4** | **ug/kg** | **103** | **SW846 8260B** |
| **Benzene** | **50.0** | **45.5** | **ug/kg** | **91** | **SW846 8260B** |
| **Trichloroethene** | **50.0** | **47.1** | **ug/kg** | **94** | **SW846 8260B** |
| **Toluene** | **50.0** | **45.5** | **ug/kg** | **91** | **SW846 8260B** |
| **Chlorobenzene** | **50.0** | **45.6** | **ug/kg** | **91** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 104 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 99 | (60 - 140) |
| Toluene-d8 | 99 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E180000-248
**Prep Date.....:** 05/17/01
**Prep Batch #...:** 1138248
**Dilution Factor:** 1
**Analyst ID.....:** 004648

**Work Order #...:** EDK471AC

**Analysis Date..:** 05/17/01
**Analysis Time..:** 11:05
**Instrument ID..:** MSD

**Matrix.....:** SOLID

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **50.0** | **49.9** | **ug/kg** | **100** | **SW846 8260B** |
| **Benzene** | **50.0** | **49.5** | **ug/kg** | **99** | **SW846 8260B** |
| **Trichloroethene** | **50.0** | **58.8** | **ug/kg** | **118** | **SW846 8260B** |
| **Toluene** | **50.0** | **49.6** | **ug/kg** | **99** | **SW846 8260B** |
| **Chlorobenzene** | **50.0** | **51.2** | **ug/kg** | **102** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 99 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 94 | (60 - 140) |
| Toluene-d8 | 97 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDCRM1AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E140000-474
**Prep Date.....:** 05/14/01 **Analysis Date..:** 05/15/01
**Prep Batch #...:** 1134474 **Analysis Time..:** 19:36
**Dilution Factor:** 1 **Instrument ID..:** G02
**Analyst ID.....:** 356074

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **TPH (as Diesel)** | **90** | **(60 - 130)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 94 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Semivolatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDCRM1AE **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E140000-474
**Prep Date.....:** 05/14/01 **Analysis Date..:** 05/15/01
**Prep Batch #...:** 1134474 **Analysis Time..:** 13:05
**Dilution Factor:** 1 **Instrument ID..:** G03
**Analyst ID.....:** 356074

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **TPH (as Diesel)** | **74** | **(60 - 130)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 74 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDELX1AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E150000-429
**Prep Date.....:** 05/14/01 **Analysis Date..:** 05/14/01
**Prep Batch #...:** 1135429 **Analysis Time..:** 11:42
**Dilution Factor:** 1 **Instrument ID..:** G16
**Analyst ID.....:** 001464

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **TPH (as Gasoline)** | **104** | **(80 - 140)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 114 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDH5D1AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E170000-297
**Prep Date.....:** 05/16/01 **Analysis Date..:** 05/16/01
**Prep Batch #...:** 1137297 **Analysis Time..:** 10:11
**Dilution Factor:** 1 **Instrument ID..:** MSG
**Analyst ID.....:** 004648

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **120** | **(60 - 140)** | **SW846 8260B** |
| **Benzene** | **109** | **(60 - 130)** | **SW846 8260B** |
| **Trichloroethene** | **106** | **(60 - 140)** | **SW846 8260B** |
| **Toluene** | **97** | **(60 - 130)** | **SW846 8260B** |
| **Chlorobenzene** | **99** | **(60 - 130)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 98 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 111 | (60 - 140) |
| Toluene-d8 | 98 | (60 - 140) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337
**LCS Lot-Sample#:** E1E170000-533
**Prep Date.....:** 05/16/01
**Prep Batch #...:** 1137533
**Dilution Factor:** 1
**Analyst ID.....:** 015590

**Work Order #...:** EDJ561AC
**Analysis Date..:** 05/16/01
**Analysis Time..:** 21:23
**Instrument ID..:** MSG

**Matrix.....:** SOLID

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **103** | **(60 - 150)** | **SW846 8260B** |
| **Benzene** | **91** | **(70 - 140)** | **SW846 8260B** |
| **Trichloroethene** | **94** | **(70 - 130)** | **SW846 8260B** |
| **Toluene** | **91** | **(70 - 130)** | **SW846 8260B** |
| **Chlorobenzene** | **91** | **(70 - 130)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 104 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 99 | (60 - 140) |
| Toluene-d8 | 99 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** E1E110337 **Work Order #...:** EDK471AC **Matrix.....:** SOLID
**LCS Lot-Sample#:** E1E180000-248
**Prep Date.....:** 05/17/01 **Analysis Date..:** 05/17/01
**Prep Batch #...:** 1138248 **Analysis Time..:** 11:05
**Dilution Factor:** 1 **Instrument ID..:** MSD
**Analyst ID.....:** 004648

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,1-Dichloroethene** | **100** | **(60 - 150)** | **SW846 8260B** |
| **Benzene** | **99** | **(70 - 140)** | **SW846 8260B** |
| **Trichloroethene** | **118** | **(70 - 130)** | **SW846 8260B** |
| **Toluene** | **99** | **(70 - 130)** | **SW846 8260B** |
| **Chlorobenzene** | **102** | **(70 - 130)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 99 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 94 | (60 - 140) |
| Toluene-d8 | 97 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC6V61AC-MS<br>EC6V61AD-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E100307-007 | | | | |
| **Date Sampled...:** | 05/10/01 10:15 | **Date Received..:** | 05/10/01 16:55 | **MS Run #.....:** | 1137161 |
| **Prep Date.....:** | 05/16/01 | **Analysis Date..:** | 05/16/01 | | |
| **Prep Batch #...:** | 1137297 | **Analysis Time..:** | 19:21 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 004648 | **Instrument ID..:** | MSG |

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **2500** | **1880** | **ug/kg** | **75** | | **SW846 8260B** |
| | **ND** | **2500** | **2440** | **ug/kg** | **97** | **26** | **SW846 8260B** |
| **Benzene** | **ND** | **2500** | **2180** | **ug/kg** | **87** | | **SW846 8260B** |
| | **ND** | **2500** | **2250** | **ug/kg** | **90** | **3.1** | **SW846 8260B** |
| **Trichloroethene** | **360** | **2500** | **2970** | **ug/kg** | **105** | | **SW846 8260B** |
| | **360** | **2500** | **2860** | **ug/kg** | **100** | **4.0** | **SW846 8260B** |
| **Toluene** | **ND** | **2500** | **2070** | **ug/kg** | **83** | | **SW846 8260B** |
| | **ND** | **2500** | **2070** | **ug/kg** | **83** | **0.04** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **2500** | **2080** | **ug/kg** | **83** | | **SW846 8260B** |
| | **ND** | **2500** | **2090** | **ug/kg** | **84** | **0.67** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 87 | (60 - 140) |
| | 88 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 102 | (60 - 140) |
| | 106 | (60 - 140) |
| Toluene-d8 | 87 | (60 - 140) |
| | 90 | (60 - 140) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC9AA1AC-MS<br>EC9AA1AD-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E110287-113 | | | | |
| **Date Sampled...:** | 05/11/01 08:24 | **Date Received..:** | 05/11/01 13:15 | **MS Run #.....:** | 1137297 |
| **Prep Date.....:** | 05/16/01 | **Analysis Date..:** | 05/16/01 | | |
| **Prep Batch #...:** | 1137533 | **Analysis Time..:** | 23:34 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 015590 | **Instrument ID..:** | MSG |

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **50.0** | **50.2** | **ug/kg** | **100** | | **SW846 8260B** |
| | **ND** | **50.0** | **52.0** | **ug/kg** | **104** | **3.5** | **SW846 8260B** |
| **Benzene** | **ND** | **50.0** | **46.1** | **ug/kg** | **92** | | **SW846 8260B** |
| | **ND** | **50.0** | **47.1** | **ug/kg** | **94** | **2.1** | **SW846 8260B** |
| **Trichloroethene** | **ND** | **50.0** | **47.5** | **ug/kg** | **95** | | **SW846 8260B** |
| | **ND** | **50.0** | **47.8** | **ug/kg** | **96** | **0.56** | **SW846 8260B** |
| **Toluene** | **ND** | **50.0** | **45.9** | **ug/kg** | **92** | | **SW846 8260B** |
| | **ND** | **50.0** | **46.3** | **ug/kg** | **93** | **1.0** | **SW846 8260B** |
| **Chlorobenzene** | **ND** | **50.0** | **45.6** | **ug/kg** | **91** | | **SW846 8260B** |
| | **ND** | **50.0** | **46.4** | **ug/kg** | **93** | **1.9** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 104 | (70 - 130) |
| | 104 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 99 | (60 - 140) |
| | 98 | (60 - 140) |
| Toluene-d8 | 100 | (70 - 130) |
| | 100 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC Semivolatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC9JD1AE-MS | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E110336-021 | | EC9JD1AF-MSD | | |
| **Date Sampled...:** | 05/11/01 15:34 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1134245 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/15/01 | | |
| **Prep Batch #...:** | 1134474 | **Analysis Time..:** | 20:54 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 356074 | **Instrument ID..:** | G02 |

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **TPH (as Diesel)** | **ND** | **250** | **186** | **mg/kg** | **74** | | **SW846 8015B** |
| | **ND** | **250** | **208** | **mg/kg** | **83** | **11** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 78 | (60 - 130) |
| | 86 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE DATA REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EDCDR1A5-MS<br>EDCDR1A6-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E140148-041 | | | | |
| **Date Sampled...:** | 05/11/01 11:10 | **Date Received..:** | 05/12/01 12:45 | **MS Run #.....:** | 1138101 |
| **Prep Date.....:** | 05/17/01 | **Analysis Date..:** | 05/17/01 | | |
| **Prep Batch #...:** | 1138248 | **Analysis Time..:** | 15:07 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 004648 | **Instrument ID..:** | MSD |

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **ND** | **50.0** | **34.7** | **ug/kg** | **69** | | **SW846 8260B** |
| | **ND** | **50.0** | **31.2** | **ug/kg** | **62** | **11** | **SW846 8260B** |
| **Benzene** | **ND** | **50.0** | **32.4** | **ug/kg** | **65** | | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| | **ND** | **50.0** | **28.7** | **ug/kg** | **57** | **12** | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| **Trichloroethene** | **ND** | **50.0** | **29.9** | **ug/kg** | **60** | | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| | **ND** | **50.0** | **26.7** | **ug/kg** | **53** | **11** | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| **Toluene** | **ND** | **50.0** | **26.2** | **ug/kg** | **52** | | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| | **ND** | **50.0** | **22.9** | **ug/kg** | **46** | **13** | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| **Chlorobenzene** | **ND** | **50.0** | **21.3** | **ug/kg** | **43** | | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |
| | **ND** | **50.0** | **18.2** | **ug/kg** | **36** | **16** | **SW846 8260B** |
| | Qualifiers: a,MSC | | | | | | |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 103 | (70 - 130) |
| | 103 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 102 | (60 - 140) |
| | 100 | (60 - 140) |
| Toluene-d8 | 106 | (70 - 130) |
| | 104 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

### GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EDCR81A4-MS<br>EDCR81A5-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E140185-003 | | | | |
| **Date Sampled...:** | 05/10/01 11:25 | **Date Received..:** | 05/10/01 17:45 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/15/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 11:37 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 |

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **ND** | **5.00** | **5.09** | **mg/kg** | **102** | | **SW846 8015B** |
| | **ND** | **5.00** | **5.05** | **mg/kg** | **101** | **0.93** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 114 | (60 - 130) |
| | 117 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC6V61AC-MS<br>EC6V61AD-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E100307-007 | | | | |
| **Date Sampled...:** | 05/10/01 10:15 | **Date Received..:** | 05/10/01 16:55 | **MS Run #.....:** | 1137161 |
| **Prep Date.....:** | 05/16/01 | **Analysis Date..:** | 05/16/01 | | |
| **Prep Batch #...:** | 1137297 | **Analysis Time..:** | 19:21 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 004648 | **Instrument ID..:** | MSG |

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **75** | **(60 - 140)** | | | **SW846 8260B** |
| | **97** | **(60 - 140)** | **26** | **(0-35)** | **SW846 8260B** |
| **Benzene** | **87** | **(60 - 130)** | | | **SW846 8260B** |
| | **90** | **(60 - 130)** | **3.1** | **(0-35)** | **SW846 8260B** |
| **Trichloroethene** | **105** | **(60 - 140)** | | | **SW846 8260B** |
| | **100** | **(60 - 140)** | **4.0** | **(0-35)** | **SW846 8260B** |
| **Toluene** | **83** | **(60 - 130)** | | | **SW846 8260B** |
| | **83** | **(60 - 130)** | **0.04** | **(0-35)** | **SW846 8260B** |
| **Chlorobenzene** | **83** | **(60 - 130)** | | | **SW846 8260B** |
| | **84** | **(60 - 130)** | **0.67** | **(0-35)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 87 | (60 - 140) |
| | 88 | (60 - 140) |
| 1,2-Dichloroethane-d4 | 102 | (60 - 140) |
| | 106 | (60 - 140) |
| Toluene-d8 | 87 | (60 - 140) |
| | 90 | (60 - 140) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC9AA1AC-MS | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E110287-113 | | EC9AA1AD-MSD | | |
| **Date Sampled...:** | 05/11/01 08:24 | **Date Received..:** | 05/11/01 13:15 | **MS Run #.....:** | 1137297 |
| **Prep Date.....:** | 05/16/01 | **Analysis Date..:** | 05/16/01 | | |
| **Prep Batch #...:** | 1137533 | **Analysis Time..:** | 23:34 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 015590 | **Instrument ID..:** | MSG |

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **100** | **(60 - 150)** | | | **SW846 8260B** |
| | **104** | **(60 - 150)** | **3.5** | **(0-30)** | **SW846 8260B** |
| **Benzene** | **92** | **(70 - 140)** | | | **SW846 8260B** |
| | **94** | **(70 - 140)** | **2.1** | **(0-30)** | **SW846 8260B** |
| **Trichloroethene** | **95** | **(70 - 130)** | | | **SW846 8260B** |
| | **96** | **(70 - 130)** | **0.56** | **(0-30)** | **SW846 8260B** |
| **Toluene** | **92** | **(70 - 130)** | | | **SW846 8260B** |
| | **93** | **(70 - 130)** | **1.0** | **(0-30)** | **SW846 8260B** |
| **Chlorobenzene** | **91** | **(70 - 130)** | | | **SW846 8260B** |
| | **93** | **(70 - 130)** | **1.9** | **(0-30)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 104 | (70 - 130) |
| | 104 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 99 | (60 - 140) |
| | 98 | (60 - 140) |
| Toluene-d8 | 100 | (70 - 130) |
| | 100 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC Semivolatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EC9JD1AE-MS | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E110336-021 | | EC9JD1AF-MSD | | |
| **Date Sampled...:** | 05/11/01 15:34 | **Date Received..:** | 05/11/01 17:16 | **MS Run #.....:** | 1134245 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/15/01 | | |
| **Prep Batch #...:** | 1134474 | **Analysis Time..:** | 20:54 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 356074 | **Instrument ID..:** | G02 |

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Diesel)** | **74** | **(60 - 130)** | | | **SW846 8015B** |
| | **83** | **(60 - 130)** | **11** | **(0-35)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Benzo(a)pyrene | 78 | (60 - 130) |
| | 86 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EDCDR1A5-MS<br>EDCDR1A6-MSD | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E140148-041 | | | | |
| **Date Sampled...:** | 05/11/01 11:10 | **Date Received..:** | 05/12/01 12:45 | **MS Run #.....:** | 1138101 |
| **Prep Date.....:** | 05/17/01 | **Analysis Date..:** | 05/17/01 | | |
| **Prep Batch #...:** | 1138248 | **Analysis Time..:** | 15:07 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 004648 | **Instrument ID..:** | MSD |

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **69** | **(60 - 150)** | | | **SW846 8260B** |
| | **62** | **(60 - 150)** | **11** | **(0-30)** | **SW846 8260B** |
| **Benzene** | **65 a,MSC** | **(70 - 140)** | | | **SW846 8260B** |
| | **57 a,MSC** | **(70 - 140)** | **12** | **(0-30)** | **SW846 8260B** |
| **Trichloroethene** | **60 a,MSC** | **(70 - 130)** | | | **SW846 8260B** |
| | **53 a,MSC** | **(70 - 130)** | **11** | **(0-30)** | **SW846 8260B** |
| **Toluene** | **52 a,MSC** | **(70 - 130)** | | | **SW846 8260B** |
| | **46 a,MSC** | **(70 - 130)** | **13** | **(0-30)** | **SW846 8260B** |
| **Chlorobenzene** | **43 a,MSC** | **(70 - 130)** | | | **SW846 8260B** |
| | **36 a,MSC** | **(70 - 130)** | **16** | **(0-30)** | **SW846 8260B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| Bromofluorobenzene | 103 | (70 - 130) |
| | 103 | (70 - 130) |
| 1,2-Dichloroethane-d4 | 102 | (60 - 140) |
| | 100 | (60 - 140) |
| Toluene-d8 | 106 | (70 - 130) |
| | 104 | (70 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MSC The percent recovery of this analyte in the associated laboratory control sample is within control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Client Lot #...:** | E1E110337 | **Work Order #...:** | EDCR81A4-MS | **Matrix.....:** | SOLID |
| **MS Lot-Sample #:** | E1E140185-003 | | EDCR81A5-MSD | | |
| **Date Sampled...:** | 05/10/01 11:25 | **Date Received..:** | 05/10/01 17:45 | **MS Run #.....:** | 1135240 |
| **Prep Date.....:** | 05/14/01 | **Analysis Date..:** | 05/15/01 | | |
| **Prep Batch #...:** | 1135429 | **Analysis Time..:** | 11:37 | | |
| **Dilution Factor:** | 1 | **Analyst ID.....:** | 001464 | **Instrument ID..:** | G16 |

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **102** | **(80 - 140)** | | | **SW846 8015B** |
| | **101** | **(80 - 140)** | **0.93** | **(0-40)** | **SW846 8015B** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| a,a,a-Trifluorotoluene (TFT) | 114 | (60 - 130) |
| | 117 | (60 - 130) |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters