Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

July 31, 2006

467

VIA U.S MAIL

Toxics and Waste Management Unit
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: South Coast Air Quality Management District (SCAQMD)
Toxic Risk Assessment for C-6 SVE System
17200 ½ Harborgate Way
Torrance, California
Permit No. F61584, Boeing Realty Corporation, Facility ID No. 130928

To Whom It May Concern:

Pursuant to Permit No. F61584, Tait Environmental Management, Inc. is submitting this notification letter regarding results for air grab samples collected on July 13, 2006 from the effluent of the soil vapor extraction (SVE) system at 17200 ½ Haborgate Way, in the City of Torrance, California.

The compound styrene was detected in the effluent grab sample (GAC0001X_AV071306_0001) collected on July 13, 2006 at a concentration of 7.5 parts per billion by volume (ppbv). Styrene was also detected in the midpoint sample (GAC0001B_AV071306_0001) at a concentration of 7.5 ppbv, but was not detected in the influent sample (GAC0001U_AV071306_0001) (Attachment 1).

The permit does not include styrene in the list of compounds that may be treated in Condition 13, therefore, styrene is considered a trace toxic. The allowable concentration for trace toxics, as defined in Condition 12, is 0.005 parts per million by volume (ppmv), or 5 ppbv. A MICR analysis was not conducted because styrene does not have an assigned unit risk factor.

If you have any questions or require additional information, please contact me at (714) 560-8658.

Sincerely,
Tait Environmental Management, Inc.

Narcisa Clara Boeru
Project Manager

Attachment 1 Analytical Laboratory Results

cc: Mr. Bill Pearce, Boeing Realty Corporation (w/attachments via e-mail)
Mr. John Scott, PE, Boeing Realty Corporation (w/attachments via e-mail)
Mr. Robert Scott, Boeing Realty Corporation (w/attachments via e-mail)

# ATTACHMENT 1

# ANALYTICAL LABORATORY RESULTS

SEVERN TRENT STL

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

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

July 24, 2006

STL LOT NUMBER: **E6G130288**
PO/CONTRACT: 050160-SEV01-002

Matthew Hillman
Tait Environmental
701 Park Center Dr
Santa Ana, CA 92705

Dear Matthew Hillman,

This report contains the analytical results for the three samples received under chain of custody by Severn Trent Laboratories (STL) on July 13, 2006. These samples are associated with your Boeing C-6/Tait project.

STL Los Angeles certifies that the tests performed at our facility meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP certification numbers for STL Los Angeles are 01118CA and E87652 FL.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature of 2 to 6 degrees Celsius is considered within acceptance criteria. Please refer to the Project Receipt Checklist for specific container temperature and conditions.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000034 pages

## CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria unless noted below.

If you have any questions, please feel free to call me at (714) 258-8610 extension 325.

Sincerely,

Linda Scharpenberg
Customer Service Manager

cc: Project File

E6G130288

**STL Los Angeles**
1721 South Grand Avenue

Santa Ana, CA 92705
phone 714-258-8610 fax 714-258-0921

E6G130288

# Chain of Custody Record

SEVERN TRENT STL

**Severn Trent Laboratories, Inc.**

| Client Contact | Project Manager: Narcisa Boeru | Site Contact: Lester Widner | Date: | COC No: |
|---|---|---|---|---|
| TAIT Environmental Management | Tel/Fax: 714-719-6856/ 714-560-8235 | Lab Contact: | Carrier: | 1 of 1 COCs |
| 701 N. Parkcenter Dr. | Analysis Turnaround Time | | | Job No. |
| Santa Ana, CA 92705 | Calendar ( C ) or Work Days (W) W | | | |
| (714) 560-8200 Phone | TAT if different from Below: NORMAL | | | |
| (714) 560-8235 FAX | ☐ 2 weeks | | | SDG No. |
| Project Name: Boeing, Torrance | ☐ 1 week | | | |
| Site: Former C-6 Facility | ☐ 2 days | | | |
| P O # EM26900 | ☐ 1 day | | | |

| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | Filtered Sample | TO-15 (TNMOC) | TO-3 Gasoline | Sample Specific Notes: |
|---|---|---|---|---|---|---|---|---|---|
| GAC0001X_AV071306-0001 | 7/13/06 | 1130 | POLAR | AIR | | | X | X | 72 hrs. HOLD TIME |
| GAC0001B_AV071306-0001 | 7/13/06 | 1135 | POLAR | AIR | | | X | X | 72 hrs. HOLD TIME |
| GAC0001U_AV071306-0001 | 7/13/06 | 1130 | POLAR | AIR | | | X | X | 72 hrs. HOLD TIME |

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

**Special Instructions/QC Requirements & Comments: Please email results to cboeru@tait.com**

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | TAIT - TEM | 7/13/06 1145 | [signature] | STL | 7/13/06 1145 |
| [signature] | STL | 7/13/06 1305 | [signature] | STL | 7/13/06 1305 |
| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |

7/10/2006

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BOE-C6-0139044

# STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 7/13/06

LIMS Lot #: E6G130288 Quote #: 40334

Client Name: TAIA Project: C-6 Facility

Received by: CA Date/Time Received: 7/13/06

Delivery by : ☒ Client ☐ STL ☐ Airborne ☐ Fed Ex ☐ UPS ☐ Other _____

********** Initial / Date

Custody Seal Status Cooler: ☐Intact ☐Broken ☒None ..... CA 7/13/06

Custody Seal Status Samples: ☐Intact ☐Broken ☒None .....

Custody Seal #(s): _____ ☒No Seal #.....

Sampler Signature on COC ☒ Yes ☐No ☐N/A...

IR Gun # _A_ Correction Factor _____°C IR passed daily verification ☐ Yes ☐No ..... N/A

Temperature - **BLANK** _____°C +/- ___ CF = _____°C ..... N/A

Temperature – **COOLER** ( ____°C ____°C ____°C ____°C) = _____ avg °C +/- ____ CF = _____°C..... N/A

Samples outside temperature criteria but received within 6 hours of final sampling ☐ Yes ☒N/A... N/A

Sample Container(s): ☒ STL-LA ☐ Client ..... CA 7/13/06

One COC/Multiple coolers: ☐ Yes- # coolers _____ All within temp criteria ☐ Yes ☐No ☒N/A.... N/A

One or more coolers with an anomaly: ☐ Yes – (fill out PRC for each) ☒N/A ... N/A

Samples: ☒Intact ☐Broken ☐Other _____ ..... CA 7/18/06

pH measured: ☐ Yes ☐ Anomaly (if checked, notify lab and file NCM) ☒ N/A.. N/A

Anomalies: ☒No ☐Yes – complete CUR and Create NCM NCM # _____ ..... CA 7/18/06

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ N/A....

Labeled by: _____ Labeling checked .....

**********

Turn Around Time: ☐RUSH–24HR ☐RUSH–48HR ☐RUSH–72HR ☒NORMAL ..... CA 7/13/06

Short-Hold Notification: ☐ pH ☐Wet Chem. ☐Metals (Filter/Pres) ☐Encore ☐ >1/2 HT expired... N/A

Outside Analysis(es) (Test/Lab/Date Sent Out) :

_____ .....

_____ .....

_____ .....

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

**Headspace Anomaly** ☒N/A CA 7/13/06

| Lab ID | Container(s) # | Headspace | Lab ID | Container(s) # | Headspace |
|---|---|---|---|---|---|
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |
| | | ☐ > 5mm ☐ < 5mm | | | ☐ > 5mm ☐ < 5mm |

LIMS Lot # E6G130288

**PROJECT RECEIPT CHECKLIST Cont'd**

| Fraction | 1-3 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1L Tedlar Bag | 1 | | | | | | | | | | | | |
| 1L Black Tedlar Bag | | | | | | | | | | | | | |
| 3L Tedlar Bag | | | | | CA 7/13/06 | | | | | | | | |
| 10L Tedlar Bag | | | | | | | | | | | | | |
| 6L Summa Canister | | | | | | | | | | | | | |
| UNUSED | | | | | | | | | | | | | |

* VOA with headspace/bubbles

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore
AGB: Amber Glass Bottle, n/f/l:HNO3-Lab filtered, n/f:HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

## Condition Upon Receipt Anomaly Form

☒N/A CA 7/13/06

- **COOLERS**
  - ☐ Not Received (received COC only)
  - ☐ Leaking
  - ☐ Other:
- **CUSTODY SEALS (COOLER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **CONTAINER(S)**
  - ☐ None
  - ☐ Not Intact
  - ☐ Other
- **TEMPERATURE (SPECS 4 ± 2°C)**
  - ☐ Cooler Temp(s)
  - ☐ Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
  - ☐ Not relinquished by Client; No date/time relinquished
  - ☐ Incomplete information provided
  - ☐Other ☐ COC not received – notify PM
- **CONTAINERS**
  - ☐ Leaking
  - ☐ Broken
  - ☐ Extra
  - ☐ Without Labels
  - ☐ Other:
- **LABELS**
  - ☐ Not the same ID/info as in COC
  - ☐ Incomplete Information
  - ☐ Markings/Info illegible
  - ☐ Torn
- **SAMPLES**
  - ☐ Samples NOT RECEIVED but listed on COC
  - ☐ Samples received but NOT LISTED on COC
  - ☐ Logged based on Label Information
  - ☐ Logged based on info from other samples on COC
  - ☐ Logged according to Work Plan
  - ☐ Logged on HOLD UNTIL FURTHER NOTICE
  - ☐ Will be noted on COC--Client to send samples with new COC
  - ☐ Mislabeled as to tests, preservatives, etc.
  - ☐ Holding time expired – list sample ID and test
  - ☐ Improper container used
  - ☐ Not preserved/Improper preservative used
  - ☐ Improper pH _____ Lab to preserve sample and document
  - ☐ Insufficient quantities for analysis ☐ Other

**Comments:**

☐ Corrective Action Implemented:

☐ Client Informed: verbally on _____ By: _____ ☐ In writing on _____ By: _____

☐ Sample(s) on hold until: _____ ☐ Sample(s) processed "as is."

| Logged by/Date: CA 7/13/06 | PM Review/Date: 7/14/06 |
|---|---|

SEVERN TRENT STL

# Analytical Report

# ANALYTICAL REPORT

PROJECT NO. EM26900

Boeing C-6/Tait

Mehmet Pehlivan

Tait Environmental

SEVERN TRENT LABORATORIES, INC.

Linda Scharpenberg
Project Manager

July 24, 2006

# EXECUTIVE SUMMARY - Detection Highlights

**E6G130288**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **GAC0001X_AV071306_0001 07/13/06 11:30 001** | | | | |
| TPH (as Gasoline) | 1.6 | 1.0 | ppm(v/v) | EPA-19 TO-3 |
| Total Non-Methane Hydrocarbons | 5100 | 500 | ppb(v/v) | EPA-2 TO-15 |
| Dichlorodifluoromethane | 1.8 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Trichlorofluoromethane | 8.8 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethene | 460 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.2 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Acetone | 6.7 J | 10 | ppb(v/v) | EPA-2 TO-15 |
| Methylene chloride | 5.3 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethane | 38 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Chloroform | 2.4 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,1-Trichloroethane | 2400 | 50 | ppb(v/v) | EPA-2 TO-15 |
| Trichloroethene | 0.74 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Toluene | 12 | 5.0 | ppb(v/v) | EPA-2 TO-15 |
| Ethylbenzene | 1.5 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Xylenes (total) | 1.8 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| m-Xylene & p-Xylene | 1.8 J | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Styrene | 7.5 | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| **GAC0001B_AV071306_0001 07/13/06 11:35 002** | | | | |
| TPH (as Gasoline) | 1.8 | 1.0 | ppm(v/v) | EPA-19 TO-3 |
| Total Non-Methane Hydrocarbons | 6400 | 1700 | ppb(v/v) | EPA-2 TO-15 |
| Dichlorodifluoromethane | 1.7 J | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| Trichlorofluoromethane | 11 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethene | 490 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| Acetone | 160 | 33 | ppb(v/v) | EPA-2 TO-15 |
| Methylene chloride | 6.1 J | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| trans-1,2-Dichloroethene | 9.7 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethane | 30 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| cis-1,2-Dichloroethene | 22 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| 2-Butanone (MEK) | 94 | 33 | ppb(v/v) | EPA-2 TO-15 |
| Chloroform | 12 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,1-Trichloroethane | 2200 | 40 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dichloroethane | 4.2 J | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| Trichloroethene | 56 | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| Toluene | 52 | 17 | ppb(v/v) | EPA-2 TO-15 |
| Ethylbenzene | 2.4 J | 6.7 | ppb(v/v) | EPA-2 TO-15 |
| Styrene | 7.5 | 6.7 | ppb(v/v) | EPA-2 TO-15 |

(Continued on next page)



BOE-C6-0139049

# EXECUTIVE SUMMARY - Detection Highlights

**E6G130288**

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|---|---|---|---|
| **GAC0001U_AV071306_0001 07/13/06 11:40 003** | | | | |
| TPH (as Gasoline) | 15 | 1.0 | ppm(v/v) | EPA-19 TO-3 |
| Total Non-Methane Hydrocarbons | 18000 | 10000 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethene | 300 | 40 | ppb(v/v) | EPA-2 TO-15 |
| Acetone | 260 | 200 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethane | 20 J | 40 | ppb(v/v) | EPA-2 TO-15 |
| 2-Butanone (MEK) | 8000 | 200 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,1-Trichloroethane | 1700 | 40 | ppb(v/v) | EPA-2 TO-15 |
| Trichloroethene | 720 | 40 | ppb(v/v) | EPA-2 TO-15 |
| 4-Methyl-2-pentanone (MIBK) | 680 | 200 | ppb(v/v) | EPA-2 TO-15 |
| Toluene | 3800 | 100 | ppb(v/v) | EPA-2 TO-15 |
| Tetrachloroethene | 27 J | 40 | ppb(v/v) | EPA-2 TO-15 |
| Ethylbenzene | 22 J | 40 | ppb(v/v) | EPA-2 TO-15 |
| Xylenes (total) | 180 | 40 | ppb(v/v) | EPA-2 TO-15 |
| m-Xylene & p-Xylene | 140 | 40 | ppb(v/v) | EPA-2 TO-15 |
| o-Xylene | 43 | 40 | ppb(v/v) | EPA-2 TO-15 |



BOE-C6-0139050

# METHODS SUMMARY

**E6G130288**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| TPH by TO-3 | EPA-19 TO-3 | |
| Volatile Organics by TO15 | EPA-2 TO-15 | |

**References:**


EPA-19 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA/600/4-89/017, January 1988

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**E6G130288**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| H8635 | 001 | GAC0001X_AV071306_0001 | 07/13/06 | 11:30 |
| H864F | 002 | GAC0001B_AV071306_0001 | 07/13/06 | 11:35 |
| H864K | 003 | GAC0001U_AV071306_0001 | 07/13/06 | 11:40 |

**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.



BOE-C6-0139052

**Tait Environmental**

**Client Sample ID: GAC0001X_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-001 **Work Order #...:** H86351AA **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:30 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361 **Method.....:** EPA-2 TO-15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 5.0 | ppb(v/v) |
| **Total Non-Methane Hydrocarbons as Hexane** | **5100** | **500** | **ppb(v/v)** |
| **Dichlorodifluoromethane** | **1.8 J** | **2.0** | **ppb(v/v)** |
| Chloromethane | ND | 4.0 | ppb(v/v) |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 2.0 | ppb(v/v) |
| Vinyl chloride | ND | 2.0 | ppb(v/v) |
| Bromomethane | ND | 2.0 | ppb(v/v) |
| Chloroethane | ND | 4.0 | ppb(v/v) |
| **Trichlorofluoromethane** | **8.8** | **2.0** | **ppb(v/v)** |
| **1,1-Dichloroethene** | **460** | **2.0** | **ppb(v/v)** |
| Carbon disulfide | ND | 10 | ppb(v/v) |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **1.2 J** | **2.0** | **ppb(v/v)** |
| **Acetone** | **6.7 J** | **10** | **ppb(v/v)** |
| **Methylene chloride** | **5.3** | **2.0** | **ppb(v/v)** |
| trans-1,2-Dichloroethene | ND | 2.0 | ppb(v/v) |
| **1,1-Dichloroethane** | **38** | **2.0** | **ppb(v/v)** |
| Vinyl acetate | ND | 10 | ppb(v/v) |
| cis-1,2-Dichloroethene | ND | 2.0 | ppb(v/v) |
| 2-Butanone (MEK) | ND | 10 | ppb(v/v) |
| **Chloroform** | **2.4** | **2.0** | **ppb(v/v)** |
| Carbon tetrachloride | ND | 2.0 | ppb(v/v) |
| Benzene | ND | 2.0 | ppb(v/v) |
| 1,2-Dichloroethane | ND | 2.0 | ppb(v/v) |
| **Trichloroethene** | **0.74 J** | **2.0** | **ppb(v/v)** |
| 1,2-Dichloropropane | ND | 2.0 | ppb(v/v) |
| Bromodichloromethane | ND | 2.0 | ppb(v/v) |
| cis-1,3-Dichloropropene | ND | 2.0 | ppb(v/v) |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ppb(v/v) |
| **Toluene** | **12** | **5.0** | **ppb(v/v)** |
| trans-1,3-Dichloropropene | ND | 2.0 | ppb(v/v) |
| 1,1,2-Trichloroethane | ND | 2.0 | ppb(v/v) |
| Tetrachloroethene | ND | 2.0 | ppb(v/v) |
| 2-Hexanone | ND | 10 | ppb(v/v) |
| Dibromochloromethane | ND | 2.0 | ppb(v/v) |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ppb(v/v) |
| Chlorobenzene | ND | 2.0 | ppb(v/v) |

(Continued on next page)

**Tait Environmental**

**Client Sample ID: GAC0001X_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-001 **Work Order #...:** H86351AA **Matrix.....:** V

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Ethylbenzene** | **1.5 J** | **2.0** | **ppb(v/v)** |
| **Xylenes (total)** | **1.8 J** | **2.0** | **ppb(v/v)** |
| **m-Xylene & p-Xylene** | **1.8 J** | **2.0** | **ppb(v/v)** |
| o-Xylene | ND | 2.0 | ppb(v/v) |
| **Styrene** | **7.5** | **2.0** | **ppb(v/v)** |
| Bromoform | ND | 2.0 | ppb(v/v) |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ppb(v/v) |
| Benzyl chloride | ND | 10 | ppb(v/v) |
| 4-Ethyltoluene | ND | 2.0 | ppb(v/v) |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ppb(v/v) |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ppb(v/v) |
| 1,3-Dichlorobenzene | ND | 2.0 | ppb(v/v) |
| 1,4-Dichlorobenzene | ND | 2.0 | ppb(v/v) |
| 1,2-Dichlorobenzene | ND | 2.0 | ppb(v/v) |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ppb(v/v) |
| Hexachlorobutadiene | ND | 4.0 | ppb(v/v) |

**NOTE(S):**

J Estimated result. Result is less than RL.

**Tait Environmental**

**GAC0001X_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #:** E6G130288-001 **Work Order #:** H86351AA **Matrix:** V

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

| PARAMETER | CAS # | ESTIMATED RESULT | RETENTION TIME | UNITS |
|---|---|---|---|---|
| None | | | | ppb(v/v) |

**Tait Environmental**

**Client Sample ID: GAC0001X_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-001 **Work Order #...:** H86352AA **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:30 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361 **Method.....:** EPA-2 TO-15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **1,1,1-Trichloroethane** | **2400** | **50** | **ppb(v/v)** |

**Tait Environmental**

**Client Sample ID: GAC0001X_AV071306_0001**

**GC Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #...:** | E6G130288-001 | **Work Order #...:** | H86351AC | **Matrix.....:** | V |
| **Date Sampled...:** | 07/13/06 11:30 | **Date Received..:** | 07/13/06 13:05 | | |
| **Prep Date.....:** | 07/13/06 | **Analysis Date..:** | 07/13/06 | | |
| **Prep Batch #...:** | 6195136 | **Method.....:** | EPA-19 TO-3 | | |

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **1.6** | **1.0** | **ppm(v/v)** |

**NOTE(S):**

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

**Tait Environmental**

**Client Sample ID: GAC0001B_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-002 **Work Order #...:** H864F1AA **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:35 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361 **Method.....:** EPA-2 TO-15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 17 | ppb(v/v) |
| **Total Non-Methane Hydrocarbons as Hexane** | **6400** | **1700** | **ppb(v/v)** |
| **Dichlorodifluoromethane** | **1.7 J** | **6.7** | **ppb(v/v)** |
| Chloromethane | ND | 13 | ppb(v/v) |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 6.7 | ppb(v/v) |
| Vinyl chloride | ND | 6.7 | ppb(v/v) |
| Bromomethane | ND | 6.7 | ppb(v/v) |
| Chloroethane | ND | 13 | ppb(v/v) |
| **Trichlorofluoromethane** | **11** | **6.7** | **ppb(v/v)** |
| **1,1-Dichloroethene** | **490** | **6.7** | **ppb(v/v)** |
| Carbon disulfide | ND | 33 | ppb(v/v) |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 6.7 | ppb(v/v) |
| **Acetone** | **160** | **33** | **ppb(v/v)** |
| **Methylene chloride** | **6.1 J** | **6.7** | **ppb(v/v)** |
| **trans-1,2-Dichloroethene** | **9.7** | **6.7** | **ppb(v/v)** |
| **1,1-Dichloroethane** | **30** | **6.7** | **ppb(v/v)** |
| Vinyl acetate | ND | 33 | ppb(v/v) |
| **cis-1,2-Dichloroethene** | **22** | **6.7** | **ppb(v/v)** |
| **2-Butanone (MEK)** | **94** | **33** | **ppb(v/v)** |
| **Chloroform** | **12** | **6.7** | **ppb(v/v)** |
| Carbon tetrachloride | ND | 6.7 | ppb(v/v) |
| Benzene | ND | 6.7 | ppb(v/v) |
| **1,2-Dichloroethane** | **4.2 J** | **6.7** | **ppb(v/v)** |
| **Trichloroethene** | **56** | **6.7** | **ppb(v/v)** |
| 1,2-Dichloropropane | ND | 6.7 | ppb(v/v) |
| Bromodichloromethane | ND | 6.7 | ppb(v/v) |
| cis-1,3-Dichloropropene | ND | 6.7 | ppb(v/v) |
| 4-Methyl-2-pentanone (MIBK) | ND | 33 | ppb(v/v) |
| **Toluene** | **52** | **17** | **ppb(v/v)** |
| trans-1,3-Dichloropropene | ND | 6.7 | ppb(v/v) |
| 1,1,2-Trichloroethane | ND | 6.7 | ppb(v/v) |
| Tetrachloroethene | ND | 6.7 | ppb(v/v) |
| 2-Hexanone | ND | 33 | ppb(v/v) |
| Dibromochloromethane | ND | 6.7 | ppb(v/v) |
| 1,2-Dibromoethane (EDB) | ND | 6.7 | ppb(v/v) |
| Chlorobenzene | ND | 6.7 | ppb(v/v) |

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BOE-C6-0139058

**Tait Environmental**

**Client Sample ID: GAC0001B_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-002 **Work Order #...:** H864F1AA **Matrix.....:** V

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **Ethylbenzene** | **2.4 J** | **6.7** | **ppb(v/v)** |
| Xylenes (total) | ND | 6.7 | ppb(v/v) |
| m-Xylene & p-Xylene | ND | 6.7 | ppb(v/v) |
| o-Xylene | ND | 6.7 | ppb(v/v) |
| **Styrene** | **7.5** | **6.7** | **ppb(v/v)** |
| Bromoform | ND | 6.7 | ppb(v/v) |
| 1,1,2,2-Tetrachloroethane | ND | 6.7 | ppb(v/v) |
| Benzyl chloride | ND | 33 | ppb(v/v) |
| 4-Ethyltoluene | ND | 6.7 | ppb(v/v) |
| 1,3,5-Trimethylbenzene | ND | 6.7 | ppb(v/v) |
| 1,2,4-Trimethylbenzene | ND | 6.7 | ppb(v/v) |
| 1,3-Dichlorobenzene | ND | 6.7 | ppb(v/v) |
| 1,4-Dichlorobenzene | ND | 6.7 | ppb(v/v) |
| 1,2-Dichlorobenzene | ND | 6.7 | ppb(v/v) |
| 1,2,4-Trichloro-benzene | ND | 17 | ppb(v/v) |
| Hexachlorobutadiene | ND | 13 | ppb(v/v) |

**NOTE(S):**

J Estimated result. Result is less than RL.



BOE-C6-0139059

**Tait Environmental**

**GAC0001B_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #:** E6G130288-002 **Work Order #:** H864F1AA **Matrix:** V

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

| PARAMETER | CAS # | ESTIMATED RESULT | | RETENTION TIME | UNITS |
|---|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | 47 | M | 3.0734 | ppb(v/v) |

**NOTE(S):**

M: Result was measured against nearest internal standard assuming a response factor of 1.

**Tait Environmental**

**Client Sample ID: GAC0001B_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-002 **Work Order #...:** H864F2AA **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:35 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361 **Method.....:** EPA-2 TO-15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **1,1,1-Trichloroethane** | **2200** | **40** | **ppb(v/v)** |

**Tait Environmental**

**Client Sample ID: GAC0001B_AV071306_0001**

**GC Volatiles**

**Lot-Sample #...:** E6G130288-002 **Work Order #...:** H864F1AC **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:35 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/13/06 **Analysis Date..:** 07/13/06
**Prep Batch #...:** 6195136 **Method.....:** EPA-19 TO-3

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **1.8** | **1.0** | **ppm(v/v)** |

**NOTE(S):**

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.

**Tait Environmental**

**Client Sample ID: GAC0001U_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-003 **Work Order #...:** H864K1AA **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:40 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361 **Method.....:** EPA-2 TO-15

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Naphthalene | ND | 100 | ppb(v/v) |
| **Total Non-Methane Hydrocarbons as Hexane** | **18000** | **10000** | **ppb(v/v)** |
| Dichlorodifluoromethane | ND | 40 | ppb(v/v) |
| Chloromethane | ND | 80 | ppb(v/v) |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 40 | ppb(v/v) |
| Vinyl chloride | ND | 40 | ppb(v/v) |
| Bromomethane | ND | 40 | ppb(v/v) |
| Chloroethane | ND | 80 | ppb(v/v) |
| Trichlorofluoromethane | ND | 40 | ppb(v/v) |
| **1,1-Dichloroethene** | **300** | **40** | **ppb(v/v)** |
| Carbon disulfide | ND | 200 | ppb(v/v) |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 40 | ppb(v/v) |
| **Acetone** | **260** | **200** | **ppb(v/v)** |
| Methylene chloride | ND | 40 | ppb(v/v) |
| trans-1,2-Dichloroethene | ND | 40 | ppb(v/v) |
| **1,1-Dichloroethane** | **20 J** | **40** | **ppb(v/v)** |
| Vinyl acetate | ND | 200 | ppb(v/v) |
| cis-1,2-Dichloroethene | ND | 40 | ppb(v/v) |
| **2-Butanone (MEK)** | **8000** | **200** | **ppb(v/v)** |
| Chloroform | ND | 40 | ppb(v/v) |
| **1,1,1-Trichloroethane** | **1700** | **40** | **ppb(v/v)** |
| Carbon tetrachloride | ND | 40 | ppb(v/v) |
| Benzene | ND | 40 | ppb(v/v) |
| 1,2-Dichloroethane | ND | 40 | ppb(v/v) |
| **Trichloroethene** | **720** | **40** | **ppb(v/v)** |
| 1,2-Dichloropropane | ND | 40 | ppb(v/v) |
| Bromodichloromethane | ND | 40 | ppb(v/v) |
| cis-1,3-Dichloropropene | ND | 40 | ppb(v/v) |
| **4-Methyl-2-pentanone (MIBK)** | **680** | **200** | **ppb(v/v)** |
| **Toluene** | **3800** | **100** | **ppb(v/v)** |
| trans-1,3-Dichloropropene | ND | 40 | ppb(v/v) |
| 1,1,2-Trichloroethane | ND | 40 | ppb(v/v) |
| **Tetrachloroethene** | **27 J** | **40** | **ppb(v/v)** |
| 2-Hexanone | ND | 200 | ppb(v/v) |
| Dibromochloromethane | ND | 40 | ppb(v/v) |
| 1,2-Dibromoethane (EDB) | ND | 40 | ppb(v/v) |

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BOE-C6-0139063

**Tait Environmental**

**Client Sample ID: GAC0001U_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #...:** E6G130288-003 **Work Order #...:** H864K1AA **Matrix.....:** V

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| Chlorobenzene | ND | 40 | ppb(v/v) |
| **Ethylbenzene** | **22 J** | **40** | **ppb(v/v)** |
| **Xylenes (total)** | **180** | **40** | **ppb(v/v)** |
| **m-Xylene & p-Xylene** | **140** | **40** | **ppb(v/v)** |
| **o-Xylene** | **43** | **40** | **ppb(v/v)** |
| Styrene | ND | 40 | ppb(v/v) |
| Bromoform | ND | 40 | ppb(v/v) |
| 1,1,2,2-Tetrachloroethane | ND | 40 | ppb(v/v) |
| Benzyl chloride | ND | 200 | ppb(v/v) |
| 4-Ethyltoluene | ND | 40 | ppb(v/v) |
| 1,3,5-Trimethylbenzene | ND | 40 | ppb(v/v) |
| 1,2,4-Trimethylbenzene | ND | 40 | ppb(v/v) |
| 1,3-Dichlorobenzene | ND | 40 | ppb(v/v) |
| 1,4-Dichlorobenzene | ND | 40 | ppb(v/v) |
| 1,2-Dichlorobenzene | ND | 40 | ppb(v/v) |
| 1,2,4-Trichloro-benzene | ND | 100 | ppb(v/v) |
| Hexachlorobutadiene | ND | 80 | ppb(v/v) |

**NOTE(S):**

J Estimated result. Result is less than RL.

**Tait Environmental**

**GAC0001U_AV071306_0001**

**GC/MS Volatiles**

**Lot-Sample #:** E6G130288-003 **Work Order #:** H864K1AA **Matrix:** V

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

| PARAMETER | CAS # | ESTIMATED RESULT | RETENTION TIME | UNITS |
|---|---|---|---|---|
| None | | | | ppb(v/v) |



BOE-C6-0139065

Tait Environmental

Client Sample ID: GAC0001U_AV071306_0001

GC Volatiles

**Lot-Sample #...:** E6G130288-003 **Work Order #...:** H864K1AC **Matrix.....:** V
**Date Sampled...:** 07/13/06 11:40 **Date Received..:** 07/13/06 13:05
**Prep Date.....:** 07/13/06 **Analysis Date..:** 07/13/06
**Prep Batch #...:** 6195136 **Method.....:** EPA-19 TO-3

| PARAMETER | RESULT | REPORTING LIMIT | UNITS |
|---|---|---|---|
| **TPH (as Gasoline)** | **15** | **1.0** | **ppm(v/v)** |

**NOTE(S):**

This sample has GC/FID characteristics for which reliable identification of a product could not be achieved.



BOE-C6-0139066

SEVERN TRENT STL

# QA/QC



BOE-C6-0139067

# QC DATA ASSOCIATION SUMMARY

**E6G130288**

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | V | EPA-2 TO-15 | | 6201361 | |
| | V | EPA-19 TO-3 | | 6195136 | |
| 002 | V | EPA-2 TO-15 | | 6201361 | |
| | V | EPA-19 TO-3 | | 6195136 | |
| 003 | V | EPA-2 TO-15 | | 6201361 | |
| | V | EPA-19 TO-3 | | 6195136 | |



BOE-C6-0139068

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H9MV41AA **Matrix.....:** AIR
**MB Lot-Sample #:** M6G200000-361

**Prep Date.....:** 07/14/06
**Analysis Date..:** 07/14/06 **Prep Batch #...:** 6201361

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Naphthalene | ND | 5.0 | ppb(v/v) | EPA-2 TO-15 |
| Total Non-Methane Hydroca | ND | 500 | ppb(v/v) | EPA-2 TO-15 |
| Dichlorodifluoromethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Chloromethane | ND | 4.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Vinyl chloride | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Bromomethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Chloroethane | ND | 4.0 | ppb(v/v) | EPA-2 TO-15 |
| Trichlorofluoromethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Carbon disulfide | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Acetone | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| Methylene chloride | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| trans-1,2-Dichloroethene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1-Dichloroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Vinyl acetate | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| cis-1,2-Dichloroethene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 2-Butanone (MEK) | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| Chloroform | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,1-Trichloroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Carbon tetrachloride | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Benzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dichloroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Trichloroethene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dichloropropane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Bromodichloromethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| cis-1,3-Dichloropropene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| Toluene | ND | 5.0 | ppb(v/v) | EPA-2 TO-15 |
| trans-1,3-Dichloropropene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,2-Trichloroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Tetrachloroethene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 2-Hexanone | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| Dibromochloromethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Chlorobenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Ethylbenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Xylenes (total) | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |

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BOE-C6-0139069

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H9MV41AA **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| m-Xylene & p-Xylene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| o-Xylene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Styrene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Bromoform | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| Benzyl chloride | ND | 10 | ppb(v/v) | EPA-2 TO-15 |
| 4-Ethyltoluene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,3-Dichlorobenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,4-Dichlorobenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2-Dichlorobenzene | ND | 2.0 | ppb(v/v) | EPA-2 TO-15 |
| 1,2,4-Trichloro-benzene | ND | 5.0 | ppb(v/v) | EPA-2 TO-15 |
| Hexachlorobutadiene | ND | 4.0 | ppb(v/v) | EPA-2 TO-15 |

**NOTE(S):**

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



BOE-C6-0139070

## METHOD BLANK REPORT

### GC Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H88D11AA **Matrix.....:** AIR
**MB Lot-Sample #:** M6G140000-136

**Prep Date.....:** 07/13/06
**Analysis Date..:** 07/13/06 **Prep Batch #...:** 6195136

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| TPH (as Gasoline) | ND | 1.0 | ppm(v/v) | EPA-19 TO-3 |

**NOTE(S):**

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



BOE-C6-0139071

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H9MV41AC-LCS **Matrix.....:** AIR
**LCS Lot-Sample#:** M6G200000-361 H9MV41AD-LCSD
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **1,1-Dichloroethene** | **76** | **(70 - 125)** | | | **EPA-2 TO-15** |
| | **80** | **(70 - 125)** | **5.8** | **(0-30)** | **EPA-2 TO-15** |
| **Methylene chloride** | **79** | **(75 - 120)** | | | **EPA-2 TO-15** |
| | **78** | **(75 - 120)** | **1.4** | **(0-30)** | **EPA-2 TO-15** |
| **1,1-Dichloroethane** | **85** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 130)** | **4.4** | **(0-30)** | **EPA-2 TO-15** |
| **Chloroform** | **87** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 130)** | **2.8** | **(0-30)** | **EPA-2 TO-15** |
| **1,1,1-Trichloroethane** | **86** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **91** | **(70 - 130)** | **5.1** | **(0-30)** | **EPA-2 TO-15** |
| **Benzene** | **83** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **83** | **(70 - 130)** | **0.36** | **(0-30)** | **EPA-2 TO-15** |
| **Trichloroethene** | **89** | **(70 - 125)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 125)** | **0.060** | **(0-30)** | **EPA-2 TO-15** |
| **1,2-Dichloropropane** | **89** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **86** | **(70 - 130)** | **3.8** | **(0-30)** | **EPA-2 TO-15** |
| **Toluene** | **84** | **(75 - 125)** | | | **EPA-2 TO-15** |
| | **82** | **(75 - 125)** | **2.8** | **(0-30)** | **EPA-2 TO-15** |
| **Tetrachloroethene** | **95** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **92** | **(70 - 130)** | **2.7** | **(0-30)** | **EPA-2 TO-15** |
| **Chlorobenzene** | **89** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 130)** | **0.11** | **(0-30)** | **EPA-2 TO-15** |
| **m-Xylene & p-Xylene** | **89** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 130)** | **0.38** | **(0-30)** | **EPA-2 TO-15** |
| **o-Xylene** | **88** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **89** | **(70 - 130)** | **0.63** | **(0-30)** | **EPA-2 TO-15** |
| **1,1,2,2-Tetrachloroethane** | **87** | **(65 - 130)** | | | **EPA-2 TO-15** |
| | **85** | **(65 - 130)** | **2.3** | **(0-30)** | **EPA-2 TO-15** |
| **1,2,4-Trimethylbenzene** | **80** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **84** | **(70 - 130)** | **5.5** | **(0-30)** | **EPA-2 TO-15** |
| **1,2-Dichlorobenzene** | **96** | **(70 - 130)** | | | **EPA-2 TO-15** |
| | **96** | **(70 - 130)** | **0.29** | **(0-30)** | **EPA-2 TO-15** |

**NOTE(S):**

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

Bold print denotes control parameters



BOE-C6-0139072

## LABORATORY CONTROL SAMPLE DATA REPORT

### GC/MS Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H9MV41AC-LCS **Matrix.....:** AIR
**LCS Lot-Sample#:** M6G200000-361 H9MV41AD-LCSD
**Prep Date.....:** 07/14/06 **Analysis Date..:** 07/14/06
**Prep Batch #...:** 6201361

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 50.0 | 37.8 | ppb(v/v) | 76 | | EPA-2 TO-15 |
| | 50.0 | 40.0 | ppb(v/v) | 80 | 5.8 | EPA-2 TO-15 |
| Methylene chloride | 50.0 | 39.4 | ppb(v/v) | 79 | | EPA-2 TO-15 |
| | 50.0 | 38.8 | ppb(v/v) | 78 | 1.4 | EPA-2 TO-15 |
| 1,1-Dichloroethane | 50.0 | 42.4 | ppb(v/v) | 85 | | EPA-2 TO-15 |
| | 50.0 | 44.4 | ppb(v/v) | 89 | 4.4 | EPA-2 TO-15 |
| Chloroform | 50.0 | 43.3 | ppb(v/v) | 87 | | EPA-2 TO-15 |
| | 50.0 | 44.6 | ppb(v/v) | 89 | 2.8 | EPA-2 TO-15 |
| 1,1,1-Trichloroethane | 50.0 | 43.0 | ppb(v/v) | 86 | | EPA-2 TO-15 |
| | 50.0 | 45.3 | ppb(v/v) | 91 | 5.1 | EPA-2 TO-15 |
| Benzene | 50.0 | 41.6 | ppb(v/v) | 83 | | EPA-2 TO-15 |
| | 50.0 | 41.7 | ppb(v/v) | 83 | 0.36 | EPA-2 TO-15 |
| Trichloroethene | 50.0 | 44.6 | ppb(v/v) | 89 | | EPA-2 TO-15 |
| | 50.0 | 44.6 | ppb(v/v) | 89 | 0.060 | EPA-2 TO-15 |
| 1,2-Dichloropropane | 50.0 | 44.5 | ppb(v/v) | 89 | | EPA-2 TO-15 |
| | 50.0 | 42.8 | ppb(v/v) | 86 | 3.8 | EPA-2 TO-15 |
| Toluene | 50.0 | 42.2 | ppb(v/v) | 84 | | EPA-2 TO-15 |
| | 50.0 | 41.1 | ppb(v/v) | 82 | 2.8 | EPA-2 TO-15 |
| Tetrachloroethene | 50.0 | 47.3 | ppb(v/v) | 95 | | EPA-2 TO-15 |
| | 50.0 | 46.0 | ppb(v/v) | 92 | 2.7 | EPA-2 TO-15 |
| Chlorobenzene | 50.0 | 44.5 | ppb(v/v) | 89 | | EPA-2 TO-15 |
| | 50.0 | 44.5 | ppb(v/v) | 89 | 0.11 | EPA-2 TO-15 |
| m-Xylene & p-Xylene | 100 | 88.9 | ppb(v/v) | 89 | | EPA-2 TO-15 |
| | 100 | 89.2 | ppb(v/v) | 89 | 0.38 | EPA-2 TO-15 |
| o-Xylene | 50.0 | 44.2 | ppb(v/v) | 88 | | EPA-2 TO-15 |
| | 50.0 | 44.5 | ppb(v/v) | 89 | 0.63 | EPA-2 TO-15 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 43.6 | ppb(v/v) | 87 | | EPA-2 TO-15 |
| | 50.0 | 42.7 | ppb(v/v) | 85 | 2.3 | EPA-2 TO-15 |
| 1,2,4-Trimethylbenzene | 50.0 | 39.8 | ppb(v/v) | 80 | | EPA-2 TO-15 |
| | 50.0 | 42.0 | ppb(v/v) | 84 | 5.5 | EPA-2 TO-15 |
| 1,2-Dichlorobenzene | 50.0 | 48.0 | ppb(v/v) | 96 | | EPA-2 TO-15 |
| | 50.0 | 47.8 | ppb(v/v) | 96 | 0.29 | EPA-2 TO-15 |

**NOTE(S):**

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

Bold print denotes control parameters



BOE-C6-0139073

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC Volatiles

**Client Lot #...:** E6G130288 **Work Order #...:** H88D11AC-LCS **Matrix.....:** AIR
**LCS Lot-Sample#:** M6G140000-136 H88D11AD-LCSD
**Prep Date.....:** 07/13/06 **Analysis Date..:** 07/13/06
**Prep Batch #...:** 6195136

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD |
|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **105** | **(80 - 125)** | | | **EPA-19 TO-3** |
| | **103** | **(80 - 125)** | **2.4** | **(0-20)** | **EPA-19 TO-3** |

**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 #...:** E6G130288 **Work Order #...:** H88D11AC-LCS **Matrix.....:** AIR
**LCS Lot-Sample#:** M6G140000-136 H88D11AD-LCSD
**Prep Date.....:** 07/13/06 **Analysis Date..:** 07/13/06
**Prep Batch #...:** 6195136

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|---|---|---|---|---|---|---|
| **TPH (as Gasoline)** | **10.7** | **11.3** | **ppm(v/v)** | **105** | | **EPA-19 TO-3** |
| | **10.7** | **11.0** | **ppm(v/v)** | **103** | **2.4** | **EPA-19 TO-3** |

**NOTE(S):**

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

Bold print denotes control parameters