UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS

Haley & Aldrich, Inc.
9040 Friars Road, Suite 220
San Diego, CA 92108-5860
Tel: 619.280.9210
Fax: 619.280.9415
www.HaleyAldrich.com

HALEY & ALDRICH

27 February 2004
File No. 28997-001

South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Attention: Toxics and Waste Management Unit

Subject: Toxic Risk Assessment
SVE System
17200 ½ Harborgate Way
Torrance, California 90846
Permit No. F61584 A/N 415853

To whom it may concern:

Pursuant to Permit No. F61584, Haley & Aldrich, Inc. is submitting this notification letter regarding results for air grab samples collected on 29 January 2004 from the ex-situ soil vapor extraction (SVE) system at 17200 ½ Harborgate Way, in the City of Torrance, California.

The compound carbon disulfide was detected in the secondary vessel exhaust sample GAC0001X_AV012904_0001, collected on 29 January 2004, at a concentration of 3.1 J (estimated) parts per billion by volume (ppbv). Carbon disulfide was not detected in the influent sample GAC0001U_AV012904_0001 or the primary vessel exhaust sample GAC0001B_AV122904_0001. Given that carbon disulfide was not detected in the primary vessel influent or effluent samples and that the secondary vessel exhaust concentration is an estimated (J flag) value below the reporting limit, it is possible that this detection is a false positive and the contaminant is not present.

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

The laboratory analytical results for samples GAC001U_AV0122904_0001, GAC001B_AV0122904_0001, and GAC001X_AV0122904_0001 are included as Attachment 1.

OFFICES

Boston
Massachusetts

Cleveland
Ohio

Dayton
Ohio

Detroit
Michigan

Hartford
Connecticut

Kansas City
Kansas

Los Angeles
California

Manchester
New Hampshire

Newark
New Jersey

Portland
Maine

Rochester
New York

Santa Barbara
California

Tucson
Arizona

Washington
District of Columbia

Please do not hesitate to call if you have any questions.

Sincerely yours,

HALEY & ALDRICH, INC.

REGISTERED PROFESSIONAL ENGINEER
RICHARD M. FARSON
47269
EXPIRES 12/31/07
CIVIL
STATE OF CALIFORNIA

Richard M. Farson, PE
Senior Engineer

Scott P. Zachary
Project Manager

cc: William Pearce – Boeing
John Scott – Boeing
Robert Scott - Boeing

Enclosure:

Attachment 1 – Analytical Laboratory Results

HALEY & ALDRICH

Attachment 1
Analytical Laboratory Results

HALEY & ALDRICH

ANALYTICAL REPORT

PROJECT NO. BOEING C6 BUILDING 1/36 SVE

Boeing C6Torrance/Wayne Perry

Lot #: E4A290297

John Huff

Wayne Perry Inc.

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

January 30, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4A290297

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC0001X_AV012904_0001 01/29/04 13:20 001				
Total Non-Methane Hydrocarbons	340 J	500	ppb(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	0.91 J	2.0	ppb(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	1.7 J	2.0	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	1.4 J	2.0	ppb(v/v)	EPA-21 TO-14A
Carbon disulfide	3.1 J	10	ppb(v/v)	EPA-21 TO-14A
Acetone	6.6 J	10	ppb(v/v)	EPA-21 TO-14A
Methylene chloride	71	2.0	ppb(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	4.2 J	10	ppb(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	110	2.0	ppb(v/v)	EPA-21 TO-14A
Toluene	7.7	5.0	ppb(v/v)	EPA-21 TO-14A
Ethylbenzene	0.68 J	2.0	ppb(v/v)	EPA-21 TO-14A
Xylenes (total)	4.3	2.0	ppb(v/v)	EPA-21 TO-14A
4-Ethyltoluene	2.0	2.0	ppb(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	2.1	2.0	ppb(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	2.5	2.0	ppb(v/v)	EPA-21 TO-14A
GAC0001B_AV012904_0001 01/29/04 13:30 002				
Total Non-Methane Hydrocarbons	20000	12000	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	150	50	ppb(v/v)	EPA-21 TO-14A
Methylene chloride	31 J	50	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	18 J	50	ppb(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	280	250	ppb(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	11000	50	ppb(v/v)	EPA-21 TO-14A
Trichloroethene	28 J	50	ppb(v/v)	EPA-21 TO-14A
Toluene	430	120	ppb(v/v)	EPA-21 TO-14A
GAC0001U_AV012904_0001 01/29/04 13:40 003				
Total Non-Methane Hydrocarbons	530000 J	620000	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	4500	2500	ppb(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	50000	12000	ppb(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	210000	2500	ppb(v/v)	EPA-21 TO-14A
Trichloroethene	4800	2500	ppb(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	5400 J	12000	ppb(v/v)	EPA-21 TO-14A
Toluene	72000	6200	ppb(v/v)	EPA-21 TO-14A
Xylenes (total)	3100	2500	ppb(v/v)	EPA-21 TO-14A

METHODS SUMMARY

E4A290297

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by TO-14A	EPA-21 TO-14A	

References:

EPA-21 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

SAMPLE SUMMARY

E4A290297

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
F8RJ6	001	GAC0001X_AV012904_0001	01/29/04	13:20
F8RJ7	002	GAC0001B_AV012904_0001	01/29/04	13:30
F8RJ8	003	GAC0001U_AV012904_0001	01/29/04	13:40

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.

WAYNE PERRY INC.

Client Sample ID: GAC0001X_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-001 **Work Order #...:** F8RJ61AA **Matrix.....:** AIR
Date Sampled...: 01/29/04 13:20 **Date Received..:** 01/29/04 15:15 **MS Run #.....:**
Prep Date.....: 01/30/04 **Analysis Date..:** 01/30/04
Prep Batch #...: 4030217 **Analysis Time..:** 07:22
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**340 J**	**500**	**ppb(v/v)**	**100**
Dichlorodifluoromethane	**0.91 J**	**2.0**	**ppb(v/v)**	**0.50**
Chloromethane	ND	4.0	ppb(v/v)	1.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)	0.80
Vinyl chloride	ND	2.0	ppb(v/v)	0.80
Bromomethane	ND	2.0	ppb(v/v)	1.0
Chloroethane	ND	4.0	ppb(v/v)	0.80
Trichlorofluoromethane	**1.7 J**	**2.0**	**ppb(v/v)**	**0.50**
1,1-Dichloroethene	**1.4 J**	**2.0**	**ppb(v/v)**	**0.50**
Carbon disulfide	**3.1 J**	**10**	**ppb(v/v)**	**2.0**
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)	0.50
Acetone	**6.6 J**	**10**	**ppb(v/v)**	**2.0**
Methylene chloride	**71**	**2.0**	**ppb(v/v)**	**0.80**
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	0.50
1,1-Dichloroethane	ND	2.0	ppb(v/v)	0.50
Vinyl acetate	ND	10	ppb(v/v)	2.0
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)	0.80
2-Butanone (MEK)	**4.2 J**	**10**	**ppb(v/v)**	**2.0**
Chloroform	ND	2.0	ppb(v/v)	0.80
1,1,1-Trichloroethane	**110**	**2.0**	**ppb(v/v)**	**0.50**
Carbon tetrachloride	ND	2.0	ppb(v/v)	0.50
Benzene	ND	2.0	ppb(v/v)	0.80
1,2-Dichloroethane	ND	2.0	ppb(v/v)	0.80
Trichloroethene	ND	2.0	ppb(v/v)	0.50
1,2-Dichloropropane	ND	2.0	ppb(v/v)	0.80
Bromodichloromethane	ND	2.0	ppb(v/v)	0.80
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)	0.50
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	2.0
Toluene	**7.7**	**5.0**	**ppb(v/v)**	**0.50**
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)	0.80
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)	0.60
Tetrachloroethene	ND	2.0	ppb(v/v)	0.60
2-Hexanone	ND	30	ppb(v/v)	1.0

(Continued on next page)

WAYNE PERRY INC.

Client Sample ID: GAC0001X_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-001 **Work Order #...:** F8RJ61AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	2.0	ppb(v/v)	0.50
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	0.50
Chlorobenzene	ND	2.0	ppb(v/v)	0.50
Ethylbenzene	**0.68 J**	**2.0**	**ppb(v/v)**	**0.50**
Xylenes (total)	**4.3**	**2.0**	**ppb(v/v)**	**0.80**
Styrene	ND	2.0	ppb(v/v)	0.60
Bromoform	ND	2.0	ppb(v/v)	0.50
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	0.50
Benzyl chloride	ND	10	ppb(v/v)	0.80
4-Ethyltoluene	**2.0**	**2.0**	**ppb(v/v)**	**0.70**
1,3,5-Trimethylbenzene	**2.1**	**2.0**	**ppb(v/v)**	**0.80**
1,2,4-Trimethylbenzene	**2.5**	**2.0**	**ppb(v/v)**	**0.80**
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	0.70
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	0.80
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	0.80
1,2,4-Trichloro-benzene	ND	20	ppb(v/v)	1.0
Hexachlorobutadiene	ND	4.0	ppb(v/v)	1.0
Methyl tert-butyl ether (MTBE)	ND	10	ppb(v/v)	0.50

NOTE(S):

J Estimated result. Result is less than RL.

WAYNE PERRY INC.

Client Sample ID: GAC0001B_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-002 **Work Order #...:** F8RJ71AA **Matrix.....:** AIR
Date Sampled...: 01/29/04 13:30 **Date Received..:** 01/29/04 15:15 **MS Run #.....:**
Prep Date.....: 01/30/04 **Analysis Date..:** 01/30/04
Prep Batch #...: 4030217 **Analysis Time..:** 07:51
Dilution Factor: 25
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**20000**	**12000**	**ppb(v/v)**	**2500**
Dichlorodifluoromethane	ND	50	ppb(v/v)	12
Chloromethane	ND	100	ppb(v/v)	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	50	ppb(v/v)	20
Vinyl chloride	ND	50	ppb(v/v)	20
Bromomethane	ND	50	ppb(v/v)	25
Chloroethane	ND	100	ppb(v/v)	20
Trichlorofluoromethane	ND	50	ppb(v/v)	12
1,1-Dichloroethene	**150**	**50**	**ppb(v/v)**	**12**
Carbon disulfide	ND	250	ppb(v/v)	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50	ppb(v/v)	12
Acetone	ND	250	ppb(v/v)	50
Methylene chloride	**31 J**	**50**	**ppb(v/v)**	**20**
trans-1,2-Dichloroethene	ND	50	ppb(v/v)	12
1,1-Dichloroethane	**18 J**	**50**	**ppb(v/v)**	**12**
Vinyl acetate	ND	250	ppb(v/v)	50
cis-1,2-Dichloroethene	ND	50	ppb(v/v)	20
2-Butanone (MEK)	**280**	**250**	**ppb(v/v)**	**50**
Chloroform	ND	50	ppb(v/v)	20
1,1,1-Trichloroethane	**11000**	**50**	**ppb(v/v)**	**12**
Carbon tetrachloride	ND	50	ppb(v/v)	12
Benzene	ND	50	ppb(v/v)	20
1,2-Dichloroethane	ND	50	ppb(v/v)	20
Trichloroethene	**28 J**	**50**	**ppb(v/v)**	**12**
1,2-Dichloropropane	ND	50	ppb(v/v)	20
Bromodichloromethane	ND	50	ppb(v/v)	20
cis-1,3-Dichloropropene	ND	50	ppb(v/v)	12
4-Methyl-2-pentanone (MIBK)	ND	250	ppb(v/v)	50
Toluene	**430**	**120**	**ppb(v/v)**	**12**
trans-1,3-Dichloropropene	ND	50	ppb(v/v)	20
1,1,2-Trichloroethane	ND	50	ppb(v/v)	15
Tetrachloroethene	ND	50	ppb(v/v)	15
2-Hexanone	ND	750	ppb(v/v)	25

(Continued on next page)

WAYNE PERRY INC.

Client Sample ID: GAC0001B_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-002 **Work Order #...:** F8RJ71AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	50	ppb(v/v)	12
1,2-Dibromoethane (EDB)	ND	50	ppb(v/v)	12
Chlorobenzene	ND	50	ppb(v/v)	12
Ethylbenzene	ND	50	ppb(v/v)	12
Xylenes (total)	ND	50	ppb(v/v)	20
Styrene	ND	50	ppb(v/v)	15
Bromoform	ND	50	ppb(v/v)	12
1,1,2,2-Tetrachloroethane	ND	50	ppb(v/v)	12
Benzyl chloride	ND	250	ppb(v/v)	20
4-Ethyltoluene	ND	50	ppb(v/v)	18
1,3,5-Trimethylbenzene	ND	50	ppb(v/v)	20
1,2,4-Trimethylbenzene	ND	50	ppb(v/v)	20
1,3-Dichlorobenzene	ND	50	ppb(v/v)	18
1,4-Dichlorobenzene	ND	50	ppb(v/v)	20
1,2-Dichlorobenzene	ND	50	ppb(v/v)	20
1,2,4-Trichloro-benzene	ND	500	ppb(v/v)	25
Hexachlorobutadiene	ND	100	ppb(v/v)	25
Methyl tert-butyl ether (MTBE)	ND	250	ppb(v/v)	12

NOTE(S):

J Estimated result. Result is less than RL.

WAYNE PERRY INC.

Client Sample ID: GAC0001U_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-003 **Work Order #...:** F8RJ81AA **Matrix.....:** AIR
Date Sampled...: 01/29/04 13:40 **Date Received..:** 01/29/04 15:15 **MS Run #.....:**
Prep Date.....: 01/29/04 **Analysis Date..:** 01/29/04
Prep Batch #...: 4030217 **Analysis Time..:** 20:50
Dilution Factor: 1250
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-21 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Non-Methane Hydrocarbons as Hexane	**530000 J**	**620000**	**ppb(v/v)**	**120000**
Dichlorodifluoromethane	ND	2500	ppb(v/v)	620
Chloromethane	ND	5000	ppb(v/v)	1200
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2500	ppb(v/v)	1000
Vinyl chloride	ND	2500	ppb(v/v)	1000
Bromomethane	ND	2500	ppb(v/v)	1200
Chloroethane	ND	5000	ppb(v/v)	1000
Trichlorofluoromethane	ND	2500	ppb(v/v)	620
1,1-Dichloroethene	**4500**	**2500**	**ppb(v/v)**	**620**
Carbon disulfide	ND	12000	ppb(v/v)	2500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2500	ppb(v/v)	620
Acetone	ND	12000	ppb(v/v)	2500
Methylene chloride	ND	2500	ppb(v/v)	1000
trans-1,2-Dichloroethene	ND	2500	ppb(v/v)	620
1,1-Dichloroethane	ND	2500	ppb(v/v)	620
Vinyl acetate	ND	12000	ppb(v/v)	2500
cis-1,2-Dichloroethene	ND	2500	ppb(v/v)	1000
2-Butanone (MEK)	**50000**	**12000**	**ppb(v/v)**	**2500**
Chloroform	ND	2500	ppb(v/v)	1000
1,1,1-Trichloroethane	**210000**	**2500**	**ppb(v/v)**	**620**
Carbon tetrachloride	ND	2500	ppb(v/v)	620
Benzene	ND	2500	ppb(v/v)	1000
1,2-Dichloroethane	ND	2500	ppb(v/v)	1000
Trichloroethene	**4800**	**2500**	**ppb(v/v)**	**620**
1,2-Dichloropropane	ND	2500	ppb(v/v)	1000
Bromodichloromethane	ND	2500	ppb(v/v)	1000
cis-1,3-Dichloropropene	ND	2500	ppb(v/v)	620
4-Methyl-2-pentanone (MIBK)	**5400 J**	**12000**	**ppb(v/v)**	**2500**
Toluene	**72000**	**6200**	**ppb(v/v)**	**620**
trans-1,3-Dichloropropene	ND	2500	ppb(v/v)	1000
1,1,2-Trichloroethane	ND	2500	ppb(v/v)	750
Tetrachloroethene	ND	2500	ppb(v/v)	750
2-Hexanone	ND	38000	ppb(v/v)	1200

(Continued on next page)

WAYNE PERRY INC.

Client Sample ID: GAC0001U_AV012904_0001

GC/MS Volatiles

Lot-Sample #...: E4A290297-003 **Work Order #...:** F8RJ81AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dibromochloromethane	ND	2500	ppb(v/v)	620
1,2-Dibromoethane (EDB)	ND	2500	ppb(v/v)	620
Chlorobenzene	ND	2500	ppb(v/v)	620
Ethylbenzene	ND	2500	ppb(v/v)	620
Xylenes (total)	**3100**	**2500**	**ppb(v/v)**	**1000**
Styrene	ND	2500	ppb(v/v)	750
Bromoform	ND	2500	ppb(v/v)	620
1,1,2,2-Tetrachloroethane	ND	2500	ppb(v/v)	620
Benzyl chloride	ND	12000	ppb(v/v)	1000
4-Ethyltoluene	ND	2500	ppb(v/v)	880
1,3,5-Trimethylbenzene	ND	2500	ppb(v/v)	1000
1,2,4-Trimethylbenzene	ND	2500	ppb(v/v)	1000
1,3-Dichlorobenzene	ND	2500	ppb(v/v)	880
1,4-Dichlorobenzene	ND	2500	ppb(v/v)	1000
1,2-Dichlorobenzene	ND	2500	ppb(v/v)	1000
1,2,4-Trichloro-benzene	ND	25000	ppb(v/v)	1200
Hexachlorobutadiene	ND	5000	ppb(v/v)	1200
Methyl tert-butyl ether (MTBE)	ND	12000	ppb(v/v)	620

NOTE(S):

J Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E4A290297

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-21 TO-14A		4030217	
002	AIR	EPA-21 TO-14A		4030217	
003	AIR	EPA-21 TO-14A		4030217	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A290297 **Work Order #...:** F8R3L1AA **Matrix.....:** AIR
MB Lot-Sample #: M4A300000-217

Prep Date.....: 01/29/04 **Analysis Time..:** 16:42
Analysis Date..: 01/29/04 **Prep Batch #...:** 4030217 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	500	ppb(v/v)	EPA-21 TO-14A
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chloromethane	ND	4.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromomethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chloroethane	ND	4.0	ppb(v/v)	EPA-21 TO-14A
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Carbon disulfide	ND	10	ppb(v/v)	EPA-21 TO-14A
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Acetone	ND	10	ppb(v/v)	EPA-21 TO-14A
Methylene chloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Vinyl acetate	ND	10	ppb(v/v)	EPA-21 TO-14A
cis-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-21 TO-14A
Chloroform	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Benzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Trichloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
cis-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-21 TO-14A
Toluene	ND	5.0	ppb(v/v)	EPA-21 TO-14A
trans-1,3-Dichloropropene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,2-Trichloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
2-Hexanone	ND	30	ppb(v/v)	EPA-21 TO-14A
Dibromochloromethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4A290297 **Work Order #...:** F8R3L1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Styrene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Bromoform	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-21 TO-14A
Benzyl chloride	ND	10	ppb(v/v)	EPA-21 TO-14A
4-Ethyltoluene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,3,5-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2,4-Trimethylbenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-21 TO-14A
1,2,4-Trichloro-benzene	ND	20	ppb(v/v)	EPA-21 TO-14A
Hexachlorobutadiene	ND	4.0	ppb(v/v)	EPA-21 TO-14A
Methyl tert-butyl ether (MTBE)	ND	10	ppb(v/v)	EPA-21 TO-14A

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4A290297 Work Order #...: F8R3L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4A300000-217 F8R3L1AD-LCSD
Prep Date.....: 01/29/04 Analysis Date..: 01/29/04
Prep Batch #...: 4030217 Analysis Time..: 15:40
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	91	(70 - 125)			EPA-21 TO-14A
	92	(70 - 125)	1.2	(0-20)	EPA-21 TO-14A
Methylene chloride	86	(75 - 120)			EPA-21 TO-14A
	89	(75 - 120)	3.0	(0-20)	EPA-21 TO-14A
Trichloroethene	88	(70 - 125)			EPA-21 TO-14A
	86	(70 - 125)	1.8	(0-20)	EPA-21 TO-14A
Toluene	96	(75 - 125)			EPA-21 TO-14A
	93	(75 - 125)	3.4	(0-20)	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	97	(65 - 130)			EPA-21 TO-14A
	98	(65 - 130)	1.6	(0-20)	EPA-21 TO-14A

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 #...: E4A290297 Work Order #...: F8R3L1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M4A300000-217 F8R3L1AD-LCSD
Prep Date.....: 01/29/04 Analysis Date..: 01/29/04
Prep Batch #...: 4030217 Analysis Time..: 15:40
Dilution Factor: 1 Instrument ID..: MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	54.0	ppb(v/v)	91		EPA-21 TO-14A
	59.2	54.6	ppb(v/v)	92	1.2	EPA-21 TO-14A
Methylene chloride	58.7	50.6	ppb(v/v)	86		EPA-21 TO-14A
	58.7	52.1	ppb(v/v)	89	3.0	EPA-21 TO-14A
Trichloroethene	59.5	52.0	ppb(v/v)	88		EPA-21 TO-14A
	59.5	51.1	ppb(v/v)	86	1.8	EPA-21 TO-14A
Toluene	55.7	53.5	ppb(v/v)	96		EPA-21 TO-14A
	55.7	51.7	ppb(v/v)	93	3.4	EPA-21 TO-14A
1,1,2,2-Tetrachloroethane	55.4	53.6	ppb(v/v)	97		EPA-21 TO-14A
	55.4	54.4	ppb(v/v)	98	1.6	EPA-21 TO-14A

NOTE(S):

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

Bold print denotes control parameters