Tait Environmental Management, Inc.
Engineering • Environmental • Compliance

May 31, 2006

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. F615484, Tait Environmental Management, Inc. is submitting this notification letter regarding results for air grab samples collected on May 3, 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_AV050306_0001) collected on May 3, 2006 at a concentration of 17 parts per billion by volume (ppbv). Styrene was not detected in the influent sample (GAC0001U_AV050306_0001) or the midpoint sample (GAC0001B_AV050306_0001).

The permit does not include styrene with 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.

The laboratory analytical results for samples GAC0001X_AV050306_0001, GAC0001B_AV050306_0001, and GAC0001U_AV050306_0001 are included as Attachment 1

If you have any questions or require additional information, please contact me at (714) 560-8681.

Sincerely,
Tait Environmental Management, Inc.

Gregory P. Gibbs, PE
Senior Project Manager

Attachments

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

ANALYTICAL REPORT

PROJECT NO. EM2690

Boeing C-6/Tait

Mehmet Pehlivan

Tait Environmental

SEVERN TRENT LABORATORIES, INC.

Diane Suzuki
Project Manager

May 12, 2006

EXECUTIVE SUMMARY - Detection Highlights

E6E030401

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC0001X_AV050306_0001 05/03/06 07:40 001				
TPH (as Gasoline)	0.58 J	1.0	ppm(v/v)	EPA-19 TO-3
Total Non-Methane Hydrocarbons	890	500	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	2.9	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	30	2.0	ppb(v/v)	EPA-2 TO-15
Acetone	2.7 J	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	1.9 J,B	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	68	2.0	ppb(v/v)	EPA-2 TO-15
Toluene	39	5.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	3.0	2.0	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	4.0	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	3.1	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.86 J	2.0	ppb(v/v)	EPA-2 TO-15
Styrene	17	2.0	ppb(v/v)	EPA-2 TO-15
GAC0001B_AV050306_0001 05/03/06 07:50 002				
TPH (as Gasoline)	4.2	1.0	ppm(v/v)	EPA-19 TO-3
Total Non-Methane Hydrocarbons	14000	10000	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	2500	40	ppb(v/v)	EPA-2 TO-15
Methylene chloride	21 J,B	40	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	42	40	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	7100	40	ppb(v/v)	EPA-2 TO-15
Trichloroethene	10 J	40	ppb(v/v)	EPA-2 TO-15
Toluene	110	100	ppb(v/v)	EPA-2 TO-15
GAC0001U_AV050306_0001 05/03/06 08:00 003				
TPH (as Gasoline)	29	1.0	ppm(v/v)	EPA-19 TO-3
Total Non-Methane Hydrocarbons	42000	17000	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	1500	67	ppb(v/v)	EPA-2 TO-15
Acetone	330	330	ppb(v/v)	EPA-2 TO-15
Methylene chloride	33 J,B	67	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	23 J	67	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	70	67	ppb(v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	40 J	67	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	11000	330	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	8000	67	ppb(v/v)	EPA-2 TO-15
Trichloroethene	1200	67	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	2200	330	ppb(v/v)	EPA-2 TO-15
Toluene	10000	170	ppb(v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	28 J	67	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	56 J	67	ppb(v/v)	EPA-2 TO-15

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EXECUTIVE SUMMARY - Detection Highlights

E6E030401

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GAC0001U_AV050306_0001 05/03/06 08:00 003				
Ethylbenzene	60 J	67	ppb(v/v)	EPA-2 TO-15
Xylenes (total)	520	67	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	380	67	ppb(v/v)	EPA-2 TO-15
o-Xylene	130	67	ppb(v/v)	EPA-2 TO-15

METHODS SUMMARY

E6E030401

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

E6E030401

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H4NDK	001	GAC0001X_AV050306_0001	05/03/06	07:40
H4NDN	002	GAC0001B_AV050306_0001	05/03/06	07:50
H4NDQ	003	GAC0001U_AV050306_0001	05/03/06	08:00

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.

Tait Environmental

Client Sample ID: GAC0001X_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-001 **Work Order #...:** H4NDK1AA **Matrix.....:** V
Date Sampled...: 05/03/06 07:40 **Date Received..:** 05/03/06 11:10
Prep Date.....: 05/04/06 **Analysis Date..:** 05/04/06
Prep Batch #...: 6125508 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Naphthalene	ND	5.0	ppb(v/v)
Total Non-Methane Hydrocarbons as Hexane	**890**	**500**	**ppb(v/v)**
Dichlorodifluoromethane	**2.9**	**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	ND	2.0	ppb(v/v)
1,1-Dichloroethene	**30**	**2.0**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ppb(v/v)
Acetone	**2.7 J**	**10**	**ppb(v/v)**
Methylene chloride	**1.9 J,B**	**2.0**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	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	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	**68**	**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	ND	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	**39**	**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)

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Tait Environmental

Client Sample ID: GAC0001X_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-001 **Work Order #...:** H4NDK1AA **Matrix.....:** V

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	2.0	ppb(v/v)
Ethylbenzene	**3.0**	**2.0**	**ppb(v/v)**
Xylenes (total)	**4.0**	**2.0**	**ppb(v/v)**
m-Xylene & p-Xylene	**3.1**	**2.0**	**ppb(v/v)**
o-Xylene	**0.86 J**	**2.0**	**ppb(v/v)**
Styrene	**17**	**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.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tait Environmental

GAC0001X_AV050306_0001

GC/MS Volatiles

Lot-Sample #: E6E030401-001 **Work Order #:** H4NDK1AA **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_AV050306_0001

GC Volatiles

Lot-Sample #...: E6E030401-001 Work Order #...: H4NDK1AC Matrix.....: V
Date Sampled...: 05/03/06 07:40 Date Received..: 05/03/06 11:10
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6128180 Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Gasoline)	0.58 J	1.0	ppm(v/v)

NOTE(S):

J Estimated result. Result is less than RL.

Tait Environmental

Client Sample ID: GAC0001B_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-002 **Work Order #...:** H4NDN1AA **Matrix.....:** V
Date Sampled...: 05/03/06 07:50 **Date Received..:** 05/03/06 11:10
Prep Date.....: 05/04/06 **Analysis Date..:** 05/04/06
Prep Batch #...: 6125508 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Naphthalene	ND	100	ppb(v/v)
Total Non-Methane Hydrocarbons as Hexane	**14000**	**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	**2500**	**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	ND	200	ppb(v/v)
Methylene chloride	**21 J,B**	**40**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	40	ppb(v/v)
1,1-Dichloroethane	**42**	**40**	**ppb(v/v)**
Vinyl acetate	ND	200	ppb(v/v)
cis-1,2-Dichloroethene	ND	40	ppb(v/v)
2-Butanone (MEK)	ND	200	ppb(v/v)
Chloroform	ND	40	ppb(v/v)
1,1,1-Trichloroethane	**7100**	**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	**10 J**	**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)	ND	200	ppb(v/v)
Toluene	**110**	**100**	**ppb(v/v)**
trans-1,3-Dichloropropene	ND	40	ppb(v/v)
1,1,2-Trichloroethane	ND	40	ppb(v/v)
Tetrachloroethene	ND	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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Tait Environmental

Client Sample ID: GAC0001B_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-002 **Work Order #...:** H4NDN1AA **Matrix.....:** V

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	40	ppb(v/v)
Ethylbenzene	ND	40	ppb(v/v)
Xylenes (total)	ND	40	ppb(v/v)
m-Xylene & p-Xylene	ND	40	ppb(v/v)
o-Xylene	ND	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.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tait Environmental

GAC0001B_AV050306_0001

GC/MS Volatiles

Lot-Sample #: E6E030401-002 **Work Order #:** H4NDN1AA **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: GAC0001B_AV050306_0001

GC Volatiles

Lot-Sample #...: E6E030401-002 Work Order #...: H4NDN1AC Matrix.....: V
Date Sampled...: 05/03/06 07:50 Date Received..: 05/03/06 11:10
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6128180 Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Gasoline)	4.2	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_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-003 **Work Order #...:** H4NDQ1AA **Matrix.....:** V
Date Sampled...: 05/03/06 08:00 **Date Received..:** 05/03/06 11:10
Prep Date.....: 05/04/06 **Analysis Date..:** 05/04/06
Prep Batch #...: 6125508 **Method.....:** EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Naphthalene	ND	170	ppb(v/v)
Total Non-Methane Hydrocarbons as Hexane	**42000**	**17000**	**ppb(v/v)**
Dichlorodifluoromethane	ND	67	ppb(v/v)
Chloromethane	ND	130	ppb(v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	67	ppb(v/v)
Vinyl chloride	ND	67	ppb(v/v)
Bromomethane	ND	67	ppb(v/v)
Chloroethane	ND	130	ppb(v/v)
Trichlorofluoromethane	ND	67	ppb(v/v)
1,1-Dichloroethene	**1500**	**67**	**ppb(v/v)**
Carbon disulfide	ND	330	ppb(v/v)
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	67	ppb(v/v)
Acetone	**330**	**330**	**ppb(v/v)**
Methylene chloride	**33 J,B**	**67**	**ppb(v/v)**
trans-1,2-Dichloroethene	**23 J**	**67**	**ppb(v/v)**
1,1-Dichloroethane	**70**	**67**	**ppb(v/v)**
Vinyl acetate	ND	330	ppb(v/v)
cis-1,2-Dichloroethene	**40 J**	**67**	**ppb(v/v)**
2-Butanone (MEK)	**11000**	**330**	**ppb(v/v)**
Chloroform	ND	67	ppb(v/v)
1,1,1-Trichloroethane	**8000**	**67**	**ppb(v/v)**
Carbon tetrachloride	ND	67	ppb(v/v)
Benzene	ND	67	ppb(v/v)
1,2-Dichloroethane	ND	67	ppb(v/v)
Trichloroethene	**1200**	**67**	**ppb(v/v)**
1,2-Dichloropropane	ND	67	ppb(v/v)
Bromodichloromethane	ND	67	ppb(v/v)
cis-1,3-Dichloropropene	ND	67	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	**2200**	**330**	**ppb(v/v)**
Toluene	**10000**	**170**	**ppb(v/v)**
trans-1,3-Dichloropropene	ND	67	ppb(v/v)
1,1,2-Trichloroethane	**28 J**	**67**	**ppb(v/v)**
Tetrachloroethene	**56 J**	**67**	**ppb(v/v)**
2-Hexanone	ND	330	ppb(v/v)
Dibromochloromethane	ND	67	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	67	ppb(v/v)

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Tait Environmental

Client Sample ID: GAC0001U_AV050306_0001

GC/MS Volatiles

Lot-Sample #...: E6E030401-003 **Work Order #...:** H4NDQ1AA **Matrix.....:** V

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chlorobenzene	ND	67	ppb(v/v)
Ethylbenzene	**60 J**	**67**	**ppb(v/v)**
Xylenes (total)	**520**	**67**	**ppb(v/v)**
m-Xylene & p-Xylene	**380**	**67**	**ppb(v/v)**
o-Xylene	**130**	**67**	**ppb(v/v)**
Styrene	ND	67	ppb(v/v)
Bromoform	ND	67	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	67	ppb(v/v)
Benzyl chloride	ND	330	ppb(v/v)
4-Ethyltoluene	ND	67	ppb(v/v)
1,3,5-Trimethylbenzene	ND	67	ppb(v/v)
1,2,4-Trimethylbenzene	ND	67	ppb(v/v)
1,3-Dichlorobenzene	ND	67	ppb(v/v)
1,4-Dichlorobenzene	ND	67	ppb(v/v)
1,2-Dichlorobenzene	ND	67	ppb(v/v)
1,2,4-Trichloro-benzene	ND	170	ppb(v/v)
Hexachlorobutadiene	ND	130	ppb(v/v)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tait Environmental

GAC0001U_AV050306_0001

GC/MS Volatiles

Lot-Sample #: E6E030401-003 **Work Order #:** H4NDQ1AA **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: GAC0001U_AV050306_0001

GC Volatiles

Lot-Sample #...: E6E030401-003 Work Order #...: H4NDQ1AC Matrix.....: V
Date Sampled...: 05/03/06 08:00 Date Received..: 05/03/06 11:10
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6128180 Method.....: EPA-19 TO-3

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Gasoline)	29	1.0	ppm(v/v)

NOTE(S):

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

QC DATA ASSOCIATION SUMMARY

E6E030401

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	V	EPA-2 TO-15		6125508	
	V	EPA-19 TO-3		6128180	
002	V	EPA-2 TO-15		6125508	
	V	EPA-19 TO-3		6128180	
003	V	EPA-2 TO-15		6125508	
	V	EPA-19 TO-3		6128180	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E6E030401 **Work Order #...:** H45E11AA **Matrix.....:** AIR
MB Lot-Sample #: M6E050000-508

Prep Date.....: 05/04/06
Analysis Date..: 05/04/06 **Prep Batch #...:** 6125508

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	**1.0 J**	**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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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E6E030401 **Work Order #...:** H45E11AA **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.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E6E030401 **Work Order #...:** H4W5J1AA **Matrix.....:** AIR
MB Lot-Sample #: M6E080000-180
Prep Date.....: 05/04/06
Analysis Date..: 05/04/06 **Prep Batch #...:** 6128180

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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E6E030401 Work Order #...: H45E11AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M6E050000-508 H45E11AD-LCSD
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6125508

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	89	(70 - 125)			EPA-2 TO-15
	92	(70 - 125)	3.6	(0-20)	EPA-2 TO-15
Methylene chloride	94	(75 - 120)			EPA-2 TO-15
	95	(75 - 120)	1.3	(0-20)	EPA-2 TO-15
Trichloroethene	91	(70 - 125)			EPA-2 TO-15
	92	(70 - 125)	1.4	(0-20)	EPA-2 TO-15
Toluene	96	(75 - 125)			EPA-2 TO-15
	95	(75 - 125)	1.8	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	94	(65 - 130)			EPA-2 TO-15
	97	(65 - 130)	3.1	(0-20)	EPA-2 TO-15

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 #...: E6E030401 Work Order #...: H45E11AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M6E050000-508 H45E11AD-LCSD
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6125508

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	50.5	45.0	ppb(v/v)	89		EPA-2 TO-15
	50.5	46.7	ppb(v/v)	92	3.6	EPA-2 TO-15
Methylene chloride	54.5	51.3	ppb(v/v)	94		EPA-2 TO-15
	54.5	52.0	ppb(v/v)	95	1.3	EPA-2 TO-15
Trichloroethene	49.5	45.0	ppb(v/v)	91		EPA-2 TO-15
	49.5	45.6	ppb(v/v)	92	1.4	EPA-2 TO-15
Toluene	49.5	47.7	ppb(v/v)	96		EPA-2 TO-15
	49.5	46.9	ppb(v/v)	95	1.8	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	50.0	46.8	ppb(v/v)	94		EPA-2 TO-15
	50.0	48.3	ppb(v/v)	97	3.1	EPA-2 TO-15

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 #...: E6E030401 Work Order #...: H4W5J1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M6E080000-180 H4W5J1AD-LCSD
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6128180

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	91	(80 - 125)			EPA-19 TO-3
	89	(80 - 125)	2.2	(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 #...: E6E030401 Work Order #...: H4W5J1AC-LCS Matrix.....: AIR
LCS Lot-Sample#: M6E080000-180 H4W5J1AD-LCSD
Prep Date.....: 05/04/06 Analysis Date..: 05/04/06
Prep Batch #...: 6128180

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	10.7	9.75	ppm(v/v)	91		EPA-19 TO-3
	10.7	9.54	ppm(v/v)	89	2.2	EPA-19 TO-3

NOTE(S):

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

Bold print denotes control parameters