Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Boeing Realty Corp. C-6, EM2727

Collection Date: November 20, 2006

LDC Report Date: April 5, 2007

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 1

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPK2310

Sample Identification

MWC015_WG112006_0001
MWC015_WG112006_0001RE1
MWC016_WG112006_0001
MWC016_WG112006_0001RE1
MWC015_WG112006_0001MS
MWC015_WG112006_0001MSD

Introduction

This data review covers 6 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance data were not reviewed for Tier 1.

III. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Tier 1.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
6K22012-BLK	11/22/06	Tetrahydrofuran	4.41 ug/L	All samples in SDG IPK2310

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
MWC015_WG112006_0001MS/MSD (MWC015_WG112006_0001)	Bromodichloromethane	-	-	38 (≤20)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

Internal standards data were not reviewed for Tier 1.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp. C-6, EM2727
Volatiles - Data Qualification Summary - SDG IPK2310

SDG	Sample	Compound	Flag	A or P	Reason
IPK2310	MWC015_WG112006_0001	Bromodichloromethane	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (RPD)

Boeing Realty Corp. C-6, EM2727
Volatiles - Laboratory Blank Data Qualification Summary - SDG IPK2310

No Sample Data Qualified in this SDG

TestAmerica
ANALYTICAL TESTING CORPORATION

TAIT Environmental/Boeing	Project ID:	Boeing C-6 Torrance	
701 N. Parkcenter Drive		EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number:	IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-05 (MWC015_WG112006_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6K22012	4.5	10	ND	1	11/22/06	11/22/06	
Benzene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
Bromobenzene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
Bromochloromethane	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Bromodichloromethane	EPA 8260B	6K22012	0.30	1.0	ND UJ	1	11/22/06	11/22/06	R
Bromoform	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
Bromomethane	EPA 8260B	6K22012	0.42	1.0	ND	1	11/22/06	11/22/06	
2-Butanone (MEK)	EPA 8260B	6K22012	3.8	5.0	ND	1	11/22/06	11/22/06	
n-Butylbenzene	EPA 8260B	6K22012	0.37	1.0	ND	1	11/22/06	11/22/06	
sec-Butylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	
tert-Butylbenzene	EPA 8260B	6K22012	0.22	1.0	ND	1	11/22/06	11/22/06	
Carbon Disulfide	EPA 8260B	6K22012	0.48	1.0	ND	1	11/22/06	11/22/06	
Carbon tetrachloride	EPA 8260B	6K22012	0.28	0.50	ND	1	11/22/06	11/22/06	
Chlorobenzene	EPA 8260B	6K22012	0.36	1.0	ND	1	11/22/06	11/22/06	
Chloroethane	EPA 8260B	6K22012	0.40	2.0	ND	1	11/22/06	11/22/06	
Chloroform	EPA 8260B	6K22012	0.33	1.0	**1.8**	1	11/22/06	11/22/06	
Chloromethane	EPA 8260B	6K22012	0.40	2.0	ND	1	11/22/06	11/22/06	
2-Chlorotoluene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
4-Chlorotoluene	EPA 8260B	6K22012	0.29	1.0	ND	1	11/22/06	11/22/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6K22012	0.97	2.0	ND	1	11/22/06	11/22/06	
Dibromochloromethane	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
1,4-Dichlorobenzene	EPA 8260B	6K22012	0.37	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichlorobenzene	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
1,3-Dichlorobenzene	EPA 8260B	6K22012	0.35	1.0	ND	1	11/22/06	11/22/06	
Dichlorodifluoromethane	EPA 8260B	6K22012	0.79	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichloroethane	EPA 8260B	6K22012	0.28	0.50	ND	1	11/22/06	11/22/06	
1,1-Dichloroethane	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,1-Dichloroethene	EPA 8260B	6K22012	0.42	1.0	**4.6**	1	11/22/06	11/22/06	
cis-1,2-Dichloroethene	EPA 8260B	6K22012	0.32	1.0	**4.6**	1	11/22/06	11/22/06	
trans-1,2-Dichloroethene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichloropropane	EPA 8260B	6K22012	0.35	1.0	ND	1	11/22/06	11/22/06	
2,2-Dichloropropane	EPA 8260B	6K22012	0.34	1.0	ND	1	11/22/06	11/22/06	
cis-1,3-Dichloropropene	EPA 8260B	6K22012	0.22	0.50	ND	1	11/22/06	11/22/06	
1,1-Dichloropropene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
trans-1,3-Dichloropropene	EPA 8260B	6K22012	0.32	0.50	ND	1	11/22/06	11/22/06	
Ethylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	
Hexachlorobutadiene	EPA 8260B	6K22012	0.38	1.0	ND	1	11/22/06	11/22/06	
2-Hexanone	EPA 8260B	6K22012	2.6	6.0	ND	1	11/22/06	11/22/06	
Iodomethane	EPA 8260B	6K22012	1.0	2.0	ND	1	11/22/06	11/22/06	C
Isopropylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	

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Nicholas Marz For Michele Chamberlin
Project Manager

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TestAmerica
ANALYTICAL TESTING CORPORATION

TAIT Environmental/Boeing	Project ID: Boeing C-6 Torrance	
701 N. Parkcenter Drive	EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number: IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan		

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-05 (MWC015_WG112006_0001 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Methylene chloride	EPA 8260B	6K22012	0.95	1.0	ND	1	11/22/06	11/22/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6K22012	3.5	5.0	ND	1	11/22/06	11/22/06	
n-Propylbenzene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
Styrene	EPA 8260B	6K22012	0.16	1.0	ND	1	11/22/06	11/22/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6K22012	0.24	1.0	ND	1	11/22/06	11/22/06	
Tetrachloroethene	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Tetrahydrofuran (THF)	EPA 8260B	6K22012	3.5	10	ND	1	11/22/06	11/22/06	
Toluene	EPA 8260B	6K22012	0.36	1.0	ND	1	11/22/06	11/22/06	
1,2,3-Trichlorobenzene	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
1,2,4-Trichlorobenzene	EPA 8260B	6K22012	0.48	1.0	ND	1	11/22/06	11/22/06	
1,1,2-Trichloroethane	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
1,1,1-Trichloroethane	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
Trichlorofluoromethane	EPA 8260B	6K22012	0.34	2.0	ND	1	11/22/06	11/22/06	
1,2,3-Trichloropropane	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
1,2,4-Trimethylbenzene	EPA 8260B	6K22012	0.23	1.0	ND	1	11/22/06	11/22/06	
1,3,5-Trimethylbenzene	EPA 8260B	6K22012	0.26	1.0	ND	1	11/22/06	11/22/06	
Vinyl acetate	EPA 8260B	6K22012	1.7	6.0	ND	1	11/22/06	11/22/06	
Vinyl chloride	EPA 8260B	6K22012	0.30	0.50	ND	1	11/22/06	11/22/06	
Xylenes, Total	EPA 8260B	6K22012	0.90	1.0	ND	1	11/22/06	11/22/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*96 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				

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Nicholas Marz For Michele Chamberlin
Project Manager

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TAIT Environmental/Boeing	Project ID:	Boeing C-6 Torrance	
701 N. Parkcenter Drive		EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number:	IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-05RE1 (MWC015_WG112006_0001 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	6K22012	2.6	10	**810**	10	11/22/06	11/22/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*98 %*				

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Project Manager

Mar 04 07

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TAIT Environmental/Boeing	Project ID:	Boeing C-6 Torrance	
701 N. Parkcenter Drive		EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number:	IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-06 (MWC016_WG112006_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6K22012	4.5	10	ND	1	11/22/06	11/22/06	
Benzene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
Bromobenzene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
Bromochloromethane	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Bromodichloromethane	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
Bromoform	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
Bromomethane	EPA 8260B	6K22012	0.42	1.0	ND	1	11/22/06	11/22/06	
2-Butanone (MEK)	EPA 8260B	6K22012	3.8	5.0	ND	1	11/22/06	11/22/06	
n-Butylbenzene	EPA 8260B	6K22012	0.37	1.0	ND	1	11/22/06	11/22/06	
sec-Butylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	
tert-Butylbenzene	EPA 8260B	6K22012	0.22	1.0	ND	1	11/22/06	11/22/06	
Carbon Disulfide	EPA 8260B	6K22012	0.48	1.0	ND	1	11/22/06	11/22/06	
Carbon tetrachloride	EPA 8260B	6K22012	0.28	0.50	**1.0**	1	11/22/06	11/22/06	
Chlorobenzene	EPA 8260B	6K22012	0.36	1.0	ND	1	11/22/06	11/22/06	
Chloroethane	EPA 8260B	6K22012	0.40	2.0	ND	1	11/22/06	11/22/06	
Chloroform	EPA 8260B	6K22012	0.33	1.0	**8.8**	1	11/22/06	11/22/06	
Chloromethane	EPA 8260B	6K22012	0.40	2.0	ND	1	11/22/06	11/22/06	
2-Chlorotoluene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
4-Chlorotoluene	EPA 8260B	6K22012	0.29	1.0	ND	1	11/22/06	11/22/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6K22012	0.97	2.0	ND	1	11/22/06	11/22/06	
Dibromochloromethane	EPA 8260B	6K22012	0.28	1.0	**1.6**	1	11/22/06	11/22/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
1,4-Dichlorobenzene	EPA 8260B	6K22012	0.37	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichlorobenzene	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
1,3-Dichlorobenzene	EPA 8260B	6K22012	0.35	1.0	ND	1	11/22/06	11/22/06	
Dichlorodifluoromethane	EPA 8260B	6K22012	0.79	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichloroethane	EPA 8260B	6K22012	0.28	0.50	ND	1	11/22/06	11/22/06	
1,1-Dichloroethane	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,1-Dichloroethene	EPA 8260B	6K22012	0.42	1.0	**7.8**	1	11/22/06	11/22/06	
cis-1,2-Dichloroethene	EPA 8260B	6K22012	0.32	1.0	**1.4**	1	11/22/06	11/22/06	
trans-1,2-Dichloroethene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,2-Dichloropropane	EPA 8260B	6K22012	0.35	1.0	ND	1	11/22/06	11/22/06	
2,2-Dichloropropane	EPA 8260B	6K22012	0.34	1.0	ND	1	11/22/06	11/22/06	
cis-1,3-Dichloropropene	EPA 8260B	6K22012	0.22	0.50	ND	1	11/22/06	11/22/06	
1,1-Dichloropropene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
trans-1,3-Dichloropropene	EPA 8260B	6K22012	0.32	0.50	ND	1	11/22/06	11/22/06	
Ethylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	
Hexachlorobutadiene	EPA 8260B	6K22012	0.38	1.0	ND	1	11/22/06	11/22/06	
2-Hexanone	EPA 8260B	6K22012	2.6	6.0	ND	1	11/22/06	11/22/06	
Iodomethane	EPA 8260B	6K22012	1.0	2.0	ND	1	11/22/06	11/22/06	C
Isopropylbenzene	EPA 8260B	6K22012	0.25	1.0	ND	1	11/22/06	11/22/06	

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Nicholas Marz For Michele Chamberlin
Project Manager

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TAIT Environmental/Boeing	Project ID:	Boeing C-6 Torrance	
701 N. Parkcenter Drive		EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number:	IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-06 (MWC016_WG112006_0001 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6K22012	0.28	1.0	ND	1	11/22/06	11/22/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Methylene chloride	EPA 8260B	6K22012	0.95	1.0	ND	1	11/22/06	11/22/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6K22012	3.5	5.0	ND	1	11/22/06	11/22/06	
n-Propylbenzene	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
Styrene	EPA 8260B	6K22012	0.16	1.0	ND	1	11/22/06	11/22/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6K22012	0.27	1.0	ND	1	11/22/06	11/22/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6K22012	0.24	1.0	ND	1	11/22/06	11/22/06	
Tetrachloroethene	EPA 8260B	6K22012	0.32	1.0	ND	1	11/22/06	11/22/06	
Tetrahydrofuran (THF)	EPA 8260B	6K22012	3.5	10	ND	1	11/22/06	11/22/06	
Toluene	EPA 8260B	6K22012	0.36	1.0	ND	1	11/22/06	11/22/06	
1,2,3-Trichlorobenzene	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
1,2,4-Trichlorobenzene	EPA 8260B	6K22012	0.48	1.0	ND	1	11/22/06	11/22/06	
1,1,2-Trichloroethane	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
1,1,1-Trichloroethane	EPA 8260B	6K22012	0.30	1.0	ND	1	11/22/06	11/22/06	
Trichlorofluoromethane	EPA 8260B	6K22012	0.34	2.0	ND	1	11/22/06	11/22/06	
1,2,3-Trichloropropane	EPA 8260B	6K22012	0.40	1.0	ND	1	11/22/06	11/22/06	
1,2,4-Trimethylbenzene	EPA 8260B	6K22012	0.23	1.0	ND	1	11/22/06	11/22/06	
1,3,5-Trimethylbenzene	EPA 8260B	6K22012	0.26	1.0	ND	1	11/22/06	11/22/06	
Vinyl acetate	EPA 8260B	6K22012	1.7	6.0	ND	1	11/22/06	11/22/06	
Vinyl chloride	EPA 8260B	6K22012	0.30	0.50	ND	1	11/22/06	11/22/06	
Xylenes, Total	EPA 8260B	6K22012	0.90	1.0	ND	1	11/22/06	11/22/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				
Surrogate: Dibromofluoromethane (80-120%)					*97 %*				
Surrogate: Toluene-d8 (80-120%)					*97 %*				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

11/20/07

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica
ANALYTICAL TESTING CORPORATION

TAIT Environmental/Boeing	Project ID:	Boeing C-6 Torrance	
701 N. Parkcenter Drive		EM2727	Sampled: 11/20/06
Santa Ana, CA 92705	Report Number:	IPK2310	Received: 11/20/06
Attention: Mehmet Pehlivan			

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPK2310-06RE1 (MWC016_WG112006_0001 - Water) - cont.									
Reporting Units: ug/l									
Trichloroethene	EPA 8260B	6K22012	2.6	10	**1100**	10	11/22/06	11/22/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Surrogate: Dibromofluoromethane (80-120%)					*100 %*				
Surrogate: Toluene-d8 (80-120%)					*95 %*				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

Mbd 12/07

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

LDC #: 16470B1
SDG #: IPK2310
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET
EPA Region 1 - Tier 1

Date: 3/30/07
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 11/20/06
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration	N	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N ~~SW~~	~~D = 1 + 3 2 + 4~~
XVII.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: water

1 /	MWC015_WG112006_0001	11 /	6K22012	21		31	
2 /	MWC015_WG112006_0001RE1	12		22		32	
3 /	MWC016_WG112006_0001	13		23		33	
4 /	MWC016_WG112006_0001RE1	14		24		34	
5	MWC015_WG112006_0001MS	15		25		35	
6	MWC015_WG112006_0001MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

16470B1W.wpd

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl choride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC.1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

BOE-C6-0053112

LDC #: 16470B1
SDG #: 1PK2310

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 11/22/06
Conc. units: ug/L
Associated Samples: All (ND)

Compound	Blank ID	Sample Identification								
	6K22012-BLK									
~~Methylene chloride~~ Tetrahydrofuran	4.41									
~~Acetone~~										
CRQL										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
Methylene chloride										
Acetone										
CRQL										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

BOE-C6-0053113

LDC #: 16470B1
SDG #: 1PK2310

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD : GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		5 & 6	P	( )	( )	38 (20)	#1	J/UJ/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%