

US EPA ARCHIVE DOCUMENT

ANALYTICAL REPORT

Job Number: 680-58846-1

Job Description: WGK Vapor Sampling 6/21/10

For:
Solutia Inc.
575 Maryville Centre Dr.
Saint Louis, MO 63141
Attention: Mr. William G Johnson



Approved for release.
Lidya Gulizia
Project Manager I
7/16/2010 9:59 AM

Lidya Gulizia
Project Manager I
lidya.gulizia@testamericainc.com
07/16/2010

cc: Mr. Scott Crawford
Erin Stanisewski

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

TestAmerica Laboratories, Inc.

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Job Narrative
Savannah 680-58846-1 / Knoxville H0F220439

Receipt

Following sample collection, the air sample was sent directly to TestAmerica Knoxville for analysis and was received in good condition on June 22, 2010. Please refer to the sample receiving information contained in the body of the Knoxville report for more detailed information regarding receipt.

Comments

No additional comments.

METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-58846-1

Description	Lab Location	Method	Preparation Method
Matrix: Air - Tedlar Bag			
EPA TO-15	TAL KNX	EPA-21 TO-15	

Lab References:

TAL KNX = TestAmerica Knoxville

Method 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

Client: Solutia Inc.

Job Number: 680-58846-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58846-1	WGK-BIGMO-SVE-Line A-V	Air - Tedlar Bag	06/21/2010 1500	06/22/2010 1145

SAMPLE RESULTS

H0F220439 Analytical Report.....	1
Sample Receipt Documentation	13
Total Number of Pages	15

ANALYTICAL REPORT

PROJECT NO. 680-58846

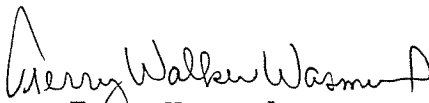
Solutia Vapor Sampling

Lot #: H0F220439

Lidya Gulizia

TestAmerica Savannah
5102 Laroche Avenue
Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.


Terry Wasmund
Project Manager

July 9, 2010

ANALYTICAL METHODS SUMMARY

H0F220439

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by TO15	EPA-2 TO-15

References:

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

SAMPLE SUMMARY

H0F220439

WO #	SAMPLE#	CLIENT	SAMPLE ID	SAMPLED DATE	SAMP TIME
L28FD	001	WGK-BIGMO-SVE-LINE	A-V	06/21/10	15:00

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.

PROJECT NARRATIVE HOF220439

The results reported herein are applicable to the samples submitted for analysis only.

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

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The sample was received on 6/22/10 in a Tedlar bag and transferred into a Summa Canister within 72 hours of sampling.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 7/1/10 exhibited a % difference of > 30% for trichlorofluoromethane and dichlorodifluoromethane, the results were within the LCS acceptance limits.

The daily standard and laboratory control sample recovery for 1,2-dichloro-1,1,2,2-tetrafluoroethane was above QC limits for batch 0182412. However, since the recovery was high, and 1,2-dichloro-1,1,2,2-tetrafluoroethane was not detected above the reporting limit in the associated samples, the validity of the data is unaffected.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Lab #88-0688, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Lab #PH-0223, Florida DOH Lab #E87177, Georgia DNR Lab #906, Hawaii DOH, Illinois EPA Lab #200012, Indiana DOH Lab #C-TN-02, Iowa DNR Lab #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH, Maryland DOE Cert. #277, Michigan DEQ Lab #9933, Nevada DEP, New Jersey DEP Lab #TN001, New York DOH Lab #10781, North Carolina DPH Lab #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Lab #CL0059, Oklahoma DEQ Lab #9415, Pennsylvania DEP Lab #68-00576, South Carolina DHEC Cert #84001001, Tennessee DOH Lab #02014, Texas CEQ, Utah DOH Lab # QUAN3, Virginia DGS Lab #00165, Washington DOE Lab #C1314, West Virginia DEP Cert. #345, West Virginia DHHR Cert #9955C, Wisconsin DNR Lab #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

TestAmerica Savannah

Client Sample ID: W GK-BIGMO-SVE-LINE A-V

GC/MS Volatiles

Lot-Sample #....: H0F220439-001 Work Order #....: L28FD1AA Matrix.....: AIR
 Date Sampled....: 06/21/10 Date Received...: 06/22/10
 Prep Date.....: 07/01/10 Analysis Date...: 07/01/10
 Prep Batch #....: 0182412
 Dilution Factor: 818.45 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Dichlorodifluoromethane	ND	160	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	160	ppb (v/v)
Chloromethane	ND	410	ppb (v/v)
Vinyl chloride	ND	160	ppb (v/v)
Bromomethane	ND	160	ppb (v/v)
Chloroethane	ND	160	ppb (v/v)
Trichlorofluoromethane	ND	160	ppb (v/v)
1,1-Dichloroethene	ND	160	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	160	ppb (v/v)
Methylene chloride	ND	410	ppb (v/v)
1,1-Dichloroethane	ND	160	ppb (v/v)
cis-1,2-Dichloroethene	ND	160	ppb (v/v)
Chloroform	ND	160	ppb (v/v)
1,1,1-Trichloroethane	ND	160	ppb (v/v)
Carbon tetrachloride	ND	160	ppb (v/v)
Benzene	9300	160	ppb (v/v)
1,2-Dichloroethane	ND	160	ppb (v/v)
Trichloroethene	ND	160	ppb (v/v)
1,2-Dichloropropane	ND	160	ppb (v/v)
cis-1,3-Dichloropropene	ND	160	ppb (v/v)
Toluene	ND	160	ppb (v/v)
trans-1,3-Dichloropropene	ND	160	ppb (v/v)
1,1,2-Trichloroethane	ND	160	ppb (v/v)
Tetrachloroethene	ND	160	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	160	ppb (v/v)
Chlorobenzene	ND	160	ppb (v/v)
Ethylbenzene	ND	160	ppb (v/v)
m-Xylene & p-Xylene	ND	160	ppb (v/v)
o-Xylene	ND	160	ppb (v/v)
Styrene	ND	160	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	160	ppb (v/v)
1,3,5-Trimethylbenzene	ND	160	ppb (v/v)
1,2,4-Trimethylbenzene	ND	160	ppb (v/v)
1,3-Dichlorobenzene	ND	160	ppb (v/v)
1,4-Dichlorobenzene	ND	160	ppb (v/v)
1,2-Dichlorobenzene	ND	160	ppb (v/v)
Benzyl chloride	ND	330	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

Client Sample ID: WGK-BIGMO-SVE-LINE A-V

GC/MS Volatiles

Lot-Sample #...: H0F220439-001 Work Order #...: L28FD1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	820	ppb (v/v)
Hexachlorobutadiene	ND	820	ppb (v/v)

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	83	(60 - 140)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0F220439
 MB Lot-Sample #: H0G010000-412

Work Order #...: L3PKL1AA

Matrix.....: AIR

Analysis Date...: 07/01/10

Prep Date.....: 07/01/10

Prep Batch #...: 0182412

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Dichlorodifluoromethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloromethane	ND	0.50	ppb (v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.20	ppb (v/v)	EPA-2 TO-15
Bromomethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Methylene chloride	ND	0.50	ppb (v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
cis-1,2-Dichloroethene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chloroform	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	0.20	ppb (v/v)	EPA-2 TO-15
Benzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Trichloroethene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.20	ppb (v/v)	EPA-2 TO-15
cis-1,3-Dichloropropene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Toluene	ND	0.20	ppb (v/v)	EPA-2 TO-15
trans-1,3-Dichloropropene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,1,2-Trichloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	0.20	ppb (v/v)	EPA-2 TO-15
Chlorobenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Ethylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	0.20	ppb (v/v)	EPA-2 TO-15
o-Xylene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Styrene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,3,5-Trimethylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2,4-Trimethylbenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	0.20	ppb (v/v)	EPA-2 TO-15
Benzyl chloride	ND	0.40	ppb (v/v)	EPA-2 TO-15
1,2,4-Trichloro- benzene	ND	1.0	ppb (v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0F220439

Work Order #...: L3PKL1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Hexachlorobutadiene	ND	1.0	ppb (v/v)	EPA-2 TO-15

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	79	(60 - 140)

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 #....: H0F220439 Work Order #....: L3PKL1AC Matrix.....: AIR
 LCS Lot-Sample#: H0G010000-412
 Prep Date.....: 07/01/10 Analysis Date...: 07/01/10
 Prep Batch #....: 0182412
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	135	(60 - 140)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	177 a	(60 - 140)	EPA-2 TO-15
Chloromethane	110	(60 - 140)	EPA-2 TO-15
Vinyl chloride	104	(70 - 130)	EPA-2 TO-15
Bromomethane	102	(70 - 130)	EPA-2 TO-15
Chloroethane	93	(70 - 130)	EPA-2 TO-15
Trichlorofluoromethane	131	(60 - 140)	EPA-2 TO-15
1,1-Dichloroethene	109	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	112	(70 - 130)	EPA-2 TO-15
Methylene chloride	96	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	92	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	91	(70 - 130)	EPA-2 TO-15
Chloroform	87	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	118	(70 - 130)	EPA-2 TO-15
Carbon tetrachloride	125	(70 - 130)	EPA-2 TO-15
Benzene	70	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	83	(70 - 130)	EPA-2 TO-15
Trichloroethene	78	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	70	(70 - 130)	EPA-2 TO-15
cis-1,3-Dichloropropene	76	(70 - 130)	EPA-2 TO-15
Toluene	73	(70 - 130)	EPA-2 TO-15
trans-1,3-Dichloropropene	85	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloroethane	78	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	84	(70 - 130)	EPA-2 TO-15
1,2-Dibromoethane (KDB)	86	(70 - 130)	EPA-2 TO-15
Chlorobenzene	86	(70 - 130)	EPA-2 TO-15
Ethylbenzene	90	(70 - 130)	EPA-2 TO-15
m-Xylene & p-Xylene	92	(70 - 130)	EPA-2 TO-15
o-Xylene	90	(70 - 130)	EPA-2 TO-15
Styrene	110	(70 - 130)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	90	(70 - 130)	EPA-2 TO-15
1,3,5-Trimethylbenzene	104	(70 - 130)	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0F220439 Work Order #...: L3PKL1AC Matrix.....: AIR
 LCS Lot-Sample#: H0G010000-412

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,2,4-Trimethylbenzene	108	(70 - 130)	EPA-2 TO-15
1,3-Dichlorobenzene	99	(70 - 130)	EPA-2 TO-15
1,4-Dichlorobenzene	127	(70 - 130)	EPA-2 TO-15
1,2-Dichlorobenzene	104	(70 - 130)	EPA-2 TO-15
Benzyl chloride	88	(70 - 130)	EPA-2 TO-15
1,2,4-Trichloro- benzene	96	(60 - 140)	EPA-2 TO-15
Hexachlorobutadiene	102	(60 - 140)	EPA-2 TO-15
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	93	(60 - 140)	

NOTE (S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: H0F220439 Work Order #....: L3PKL1AC Matrix.....: AIR
 LCS Lot-Sample#: H0G010000-412
 Prep Date.....: 07/01/10 Analysis Date...: 07/01/10
 Prep Batch #....: 0182412
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Dichlorodifluoromethane	10.0	13.5	ppb (v/v)	135	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	10.0	17.7 a	ppb (v/v)	177	EPA-2 TO-15
Chloromethane	10.0	11.0	ppb (v/v)	110	EPA-2 TO-15
Vinyl chloride	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15
Bromomethane	10.0	10.2	ppb (v/v)	102	EPA-2 TO-15
Chloroethane	10.0	9.29	ppb (v/v)	93	EPA-2 TO-15
Trichlorofluoromethane	10.0	13.1	ppb (v/v)	131	EPA-2 TO-15
1,1-Dichloroethene	10.0	10.9	ppb (v/v)	109	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	10.0	11.2	ppb (v/v)	112	EPA-2 TO-15
Methylene chloride	10.0	9.58	ppb (v/v)	96	EPA-2 TO-15
1,1-Dichloroethane	10.0	9.19	ppb (v/v)	92	EPA-2 TO-15
cis-1,2-Dichloroethene	10.0	9.08	ppb (v/v)	91	EPA-2 TO-15
Chloroform	10.0	8.71	ppb (v/v)	87	EPA-2 TO-15
1,1,1-Trichloroethane	10.0	11.8	ppb (v/v)	118	EPA-2 TO-15
Carbon tetrachloride	10.0	12.5	ppb (v/v)	125	EPA-2 TO-15
Benzene	10.0	6.97	ppb (v/v)	70	EPA-2 TO-15
1,2-Dichloroethane	10.0	8.30	ppb (v/v)	83	EPA-2 TO-15
Trichloroethene	10.0	7.82	ppb (v/v)	78	EPA-2 TO-15
1,2-Dichloropropane	10.0	7.05	ppb (v/v)	70	EPA-2 TO-15
cis-1,3-Dichloropropene	10.0	7.65	ppb (v/v)	76	EPA-2 TO-15
Toluene	10.0	7.30	ppb (v/v)	73	EPA-2 TO-15
trans-1,3-Dichloropropene	10.0	8.48	ppb (v/v)	85	EPA-2 TO-15
1,1,2-Trichloroethane	10.0	7.80	ppb (v/v)	78	EPA-2 TO-15
Tetrachloroethene	10.0	8.38	ppb (v/v)	84	EPA-2 TO-15
1,2-Dibromoethane (EDB)	10.0	8.59	ppb (v/v)	86	EPA-2 TO-15
Chlorobenzene	10.0	8.60	ppb (v/v)	86	EPA-2 TO-15
Ethylbenzene	10.0	8.96	ppb (v/v)	90	EPA-2 TO-15
m-Xylene & p-Xylene	20.0	18.4	ppb (v/v)	92	EPA-2 TO-15
o-Xylene	10.0	9.04	ppb (v/v)	90	EPA-2 TO-15
Styrene	10.0	11.0	ppb (v/v)	110	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	10.0	9.04	ppb (v/v)	90	EPA-2 TO-15
1,3,5-Trimethylbenzene	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0F220439
 LCS Lot-Sample#: H0G010000-412

Work Order #...: L3PKL1AC

Matrix.....: AIR

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
1,2,4-Trimethylbenzene	10.0	10.8	ppb (v/v)	108	EPA-2 TO-15
1,3-Dichlorobenzene	10.0	9.94	ppb (v/v)	99	EPA-2 TO-15
1,4-Dichlorobenzene	10.0	12.7	ppb (v/v)	127	EPA-2 TO-15
1,2-Dichlorobenzene	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15
Benzyl chloride	10.0	8.85	ppb (v/v)	88	EPA-2 TO-15
1,2,4-Trichloro- benzene	10.0	9.56	ppb (v/v)	96	EPA-2 TO-15
Hexachlorobutadiene	10.0	10.2	ppb (v/v)	102	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
4-Bromofluorobenzene		93	(60 - 140)		

NOTE (S) :

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

HOF220439

Page 19 of 21

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 40F220439

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)				<input type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	4a
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4 °C; VOST: 10 °C; MA: 2-6 °C)	✓			<input type="checkbox"/> 2a Temp Blank = <input type="checkbox"/> 2b Cooler Temp =	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	<input type="checkbox"/> 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		<input checked="" type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	✓			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?			✓	<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	<input type="checkbox"/> Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
13. Are the shipping containers intact?	✓			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			<input type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	✓			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 80050 PM Instructions:

Sample Receiving Associate: Ryan Henry

Date: 6/22/10

QA026R21.doc, 090409

Lot Number: H0F220439

Initial Can Pressure				Subsequent Dilutions												
Analyst/Date	Tedlar Bag Time	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First In-Can Final Pres. Pf (psig)	Second In-Can Final Pres. Pf (psig)	Third In-Can Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
HUF 6-23-10	1120 29.08	L28FD	0162										0162	5.0	5.1	