

ANALYTICAL REPORT

Job Number: 680-58167-1

Job Description: WGK Vapor Sampling 5/26/10

For:

Solutia Inc.

575 Maryville Centre Dr.

Saint Louis, MO 63141

Attention: Mr. William G Johnson



Approved for release.
Lidya Gulizia
Project Manager I
6/28/2010 4:26 PM

Lidya Gulizia

Project Manager I

lidya.gulizia@testamericainc.com

06/28/2010

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 #: 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.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404

Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Job Narrative
Savannah 680-58167-1 / Knoxville H0E280416

Receipt

Following sample collection, the air sample was sent directly to TestAmerica Knoxville for analysis and was received in good condition on May 28, 2010. Please refer to the sample receiving information contained in the body of the Knoxville report for more detailed information regarding receipt.

No analytical or quality issues were noted.

Subcontract Work

Method(s) VOCs in Ambient Air / Tedlar Bag: The sample has been subcontracted to TestAmerica Knoxville the subcontract certifications are different from those listed on the TestAmerica cover page of this final report.

Comments

No additional comments.

METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-58167-1

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: 680-58167-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58167-1	WGK-BIGMO-SVE-Line A-V	Air - Tedlar Bag	05/26/2010 1500	06/02/2010 1245

SAMPLE RESULTS

H0E280416 Analytical Report.....	1
Sample Receipt Documentation	14
Total Number of Pages	16

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 680-58167

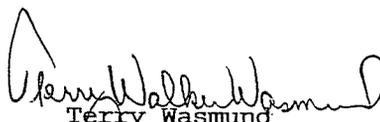
Solutia Vapor Sampling

Lot #: H0E280416

Lidya Gulizia

TestAmerica Savannah
5102 Laroche Avenue
Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.


Terry Wasmund
Project Manager

June 16, 2010

ANALYTICAL METHODS SUMMARY

HOE280416

<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

H0E280416

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L17HF	001	WGK-BIGMO-SVE-LINE A-V	05/26/10	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

HOE280416

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 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 6/1/10 exhibited a % difference of > 30% for 1,2,4-trichlorobenzene and 1,2-dichloro-1,1,2,2-tetrafluoroethane, the results were within the LCS acceptance limits.

Although 1,2-dichloro-1,1,2,2-tetrafluoroethane is flagged as being outside recovery limits in the laboratory control sample for batch 0153108, the laboratory control sample is in control. The standard operating procedure allows for 2 analytes to be outside the control limits, but within marginal exceedence limit.

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.

PROJECT NARRATIVE
HOE280416

The sample was received on 5/28/10 in a Tedlar bag and transferred into a Summa Canister within 72 hours of sampling.

TestAmerica Savannah

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

GC/MS Volatiles

Lot-Sample #...: H0E280416-001 Work Order #...: L17HF1AA Matrix.....: AIR
 Date Sampled...: 05/26/10 Date Received...: 05/28/10
 Prep Date.....: 06/01/10 Analysis Date...: 06/01/10
 Prep Batch #...: 0153108
 Dilution Factor: 9608.25 Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Dichlorodifluoromethane	ND	1900	ppb (v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	ND	1900	ppb (v/v)
Chloromethane	ND	4800	ppb (v/v)
Vinyl chloride	ND	1900	ppb (v/v)
Bromomethane	ND	1900	ppb (v/v)
Chloroethane	ND	1900	ppb (v/v)
Trichlorofluoromethane	ND	1900	ppb (v/v)
1,1-Dichloroethene	ND	1900	ppb (v/v)
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1900	ppb (v/v)
Methylene chloride	ND	4800	ppb (v/v)
1,1-Dichloroethane	ND	1900	ppb (v/v)
cis-1,2-Dichloroethene	ND	1900	ppb (v/v)
Chloroform	ND	1900	ppb (v/v)
1,1,1-Trichloroethane	ND	1900	ppb (v/v)
Carbon tetrachloride	ND	1900	ppb (v/v)
Benzene	180000	1900	ppb (v/v)
1,2-Dichloroethane	ND	1900	ppb (v/v)
Trichloroethene	ND	1900	ppb (v/v)
1,2-Dichloropropane	ND	1900	ppb (v/v)
cis-1,3-Dichloropropene	ND	1900	ppb (v/v)
Toluene	ND	1900	ppb (v/v)
trans-1,3-Dichloropropene	ND	1900	ppb (v/v)
1,1,2-Trichloroethane	ND	1900	ppb (v/v)
Tetrachloroethene	ND	1900	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	1900	ppb (v/v)
Chlorobenzene	ND	1900	ppb (v/v)
Ethylbenzene	ND	1900	ppb (v/v)
m-Xylene & p-Xylene	ND	1900	ppb (v/v)
o-Xylene	ND	1900	ppb (v/v)
Styrene	ND	1900	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	1900	ppb (v/v)
1,3,5-Trimethylbenzene	ND	1900	ppb (v/v)
1,2,4-Trimethylbenzene	ND	1900	ppb (v/v)
1,3-Dichlorobenzene	ND	1900	ppb (v/v)
1,4-Dichlorobenzene	ND	1900	ppb (v/v)
1,2-Dichlorobenzene	ND	1900	ppb (v/v)
Benzyl chloride	ND	3800	ppb (v/v)

(Continued on next page)

TestAmerica Savannah

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

GC/MS Volatiles

Lot-Sample #...: H0E280416-001 Work Order #...: L17HF1AA Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
1,2,4-Trichloro- benzene	ND	9600	ppb (v/v)
Hexachlorobutadiene	ND	9600	ppb (v/v)
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
4-Bromofluorobenzene	91	(60 - 140)	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0E280416
 MB Lot-Sample #: H0F020000-108

Work Order #...: L2CFT1AA

Matrix.....: AIR

Prep Date.....: 06/01/10

Analysis Date...: 06/01/10

Prep Batch #...: 0153108

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 #...: H0E280416

Work Order #...: L2CFT1AA

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Hexachlorobutadiene	ND	1.0	ppb (v/v)	EPA-2 TO-15
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
4-Bromofluorobenzene	92	(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 #...: H0E280416 Work Order #...: L2CFT1AC Matrix.....: AIR
 LCS Lot-Sample#: H0F020000-108
 Prep Date.....: 06/01/10 Analysis Date...: 06/01/10
 Prep Batch #...: 0153108
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	METHOD
	RECOVERY	LIMITS	
Dichlorodifluoromethane	116	(60 - 140)	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	148 a	(60 - 140)	EPA-2 TO-15
Chloromethane	99	(60 - 140)	EPA-2 TO-15
Vinyl chloride	94	(70 - 130)	EPA-2 TO-15
Bromomethane	101	(70 - 130)	EPA-2 TO-15
Chloroethane	89	(70 - 130)	EPA-2 TO-15
Trichlorofluoromethane	121	(60 - 140)	EPA-2 TO-15
1,1-Dichloroethene	85	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	91	(70 - 130)	EPA-2 TO-15
Methylene chloride	75	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	87	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	86	(70 - 130)	EPA-2 TO-15
Chloroform	87	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	108	(70 - 130)	EPA-2 TO-15
Carbon tetrachloride	117	(70 - 130)	EPA-2 TO-15
Benzene	79	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	93	(70 - 130)	EPA-2 TO-15
Trichloroethene	87	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	78	(70 - 130)	EPA-2 TO-15
cis-1,3-Dichloropropene	82	(70 - 130)	EPA-2 TO-15
Toluene	84	(70 - 130)	EPA-2 TO-15
trans-1,3-Dichloropropene	92	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloroethane	91	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	99	(70 - 130)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	94	(70 - 130)	EPA-2 TO-15
Chlorobenzene	96	(70 - 130)	EPA-2 TO-15
Ethylbenzene	96	(70 - 130)	EPA-2 TO-15
m-Xylene & p-Xylene	99	(70 - 130)	EPA-2 TO-15
o-Xylene	98	(70 - 130)	EPA-2 TO-15
Styrene	108	(70 - 130)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	92	(70 - 130)	EPA-2 TO-15
1,3,5-Trimethylbenzene	100	(70 - 130)	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0E280416 Work Order #...: L2CFT1AC Matrix.....: AIR
 LCS Lot-Sample#: H0F020000-108

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
1,2,4-Trimethylbenzene	107	(70 - 130)	EPA-2 TO-15
1,3-Dichlorobenzene	104	(70 - 130)	EPA-2 TO-15
1,4-Dichlorobenzene	104	(70 - 130)	EPA-2 TO-15
1,2-Dichlorobenzene	104	(70 - 130)	EPA-2 TO-15
Benzyl chloride	105	(70 - 130)	EPA-2 TO-15
1,2,4-Trichloro- benzene	69	(60 - 140)	EPA-2 TO-15
Hexachlorobutadiene	84	(60 - 140)	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene		102	(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 #...: H0E280416 Work Order #...: L2CFT1AC Matrix.....: AIR
 LCS Lot-Sample#: H0F020000-108
 Prep Date.....: 06/01/10 Analysis Date...: 06/01/10
 Prep Batch #...: 0153108
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Dichlorodifluoromethane	10.0	11.6	ppb (v/v)	116	EPA-2 TO-15
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	10.0	14.8 a	ppb (v/v)	148	EPA-2 TO-15
Chloromethane	10.0	9.93	ppb (v/v)	99	EPA-2 TO-15
Vinyl chloride	10.0	9.44	ppb (v/v)	94	EPA-2 TO-15
Bromomethane	10.0	10.1	ppb (v/v)	101	EPA-2 TO-15
Chloroethane	10.0	8.95	ppb (v/v)	89	EPA-2 TO-15
Trichlorofluoromethane	10.0	12.1	ppb (v/v)	121	EPA-2 TO-15
1,1-Dichloroethene	10.0	8.47	ppb (v/v)	85	EPA-2 TO-15
1,1,2-Trichloro- 1,2,2-trifluoroethane	10.0	9.12	ppb (v/v)	91	EPA-2 TO-15
Methylene chloride	10.0	7.49	ppb (v/v)	75	EPA-2 TO-15
1,1-Dichloroethane	10.0	8.75	ppb (v/v)	87	EPA-2 TO-15
cis-1,2-Dichloroethene	10.0	8.61	ppb (v/v)	86	EPA-2 TO-15
Chloroform	10.0	8.67	ppb (v/v)	87	EPA-2 TO-15
1,1,1-Trichloroethane	10.0	10.8	ppb (v/v)	108	EPA-2 TO-15
Carbon tetrachloride	10.0	11.7	ppb (v/v)	117	EPA-2 TO-15
Benzene	10.0	7.90	ppb (v/v)	79	EPA-2 TO-15
1,2-Dichloroethane	10.0	9.28	ppb (v/v)	93	EPA-2 TO-15
Trichloroethene	10.0	8.71	ppb (v/v)	87	EPA-2 TO-15
1,2-Dichloropropane	10.0	7.78	ppb (v/v)	78	EPA-2 TO-15
cis-1,3-Dichloropropene	10.0	8.17	ppb (v/v)	82	EPA-2 TO-15
Toluene	10.0	8.40	ppb (v/v)	84	EPA-2 TO-15
trans-1,3-Dichloropropene	10.0	9.23	ppb (v/v)	92	EPA-2 TO-15
1,1,2-Trichloroethane	10.0	9.13	ppb (v/v)	91	EPA-2 TO-15
Tetrachloroethene	10.0	9.93	ppb (v/v)	99	EPA-2 TO-15
1,2-Dibromoethane (EDB)	10.0	9.41	ppb (v/v)	94	EPA-2 TO-15
Chlorobenzene	10.0	9.60	ppb (v/v)	96	EPA-2 TO-15
Ethylbenzene	10.0	9.63	ppb (v/v)	96	EPA-2 TO-15
m-Xylene & p-Xylene	20.0	19.9	ppb (v/v)	99	EPA-2 TO-15
o-Xylene	10.0	9.83	ppb (v/v)	98	EPA-2 TO-15
Styrene	10.0	10.8	ppb (v/v)	108	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	10.0	9.24	ppb (v/v)	92	EPA-2 TO-15
1,3,5-Trimethylbenzene	10.0	9.96	ppb (v/v)	100	EPA-2 TO-15

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0E280416 Work Order #...: L2CFT1AC Matrix.....: AIR
 LCS Lot-Sample#: H0F020000-108

<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	10.7	ppb (v/v)	107	EPA-2 TO-15
1,3-Dichlorobenzene	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15
1,4-Dichlorobenzene	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15
1,2-Dichlorobenzene	10.0	10.4	ppb (v/v)	104	EPA-2 TO-15
Benzyl chloride	10.0	10.5	ppb (v/v)	105	EPA-2 TO-15
1,2,4-Trichloro- benzene	10.0	6.94	ppb (v/v)	69	EPA-2 TO-15
Hexachlorobutadiene	10.0	8.40	ppb (v/v)	84	EPA-2 TO-15
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
4-Bromofluorobenzene		102	(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.

10E 280416

Chain of Custody Record

Client Information		Sampler: Reggie Gardner - PSC		Lab PM: Lidya Gulizia		Carrier Tracking No(s): FEDEX		COC No:	
Client Contact: William Johnson		Phone: 618-407-3811		E-Mail: rgardner@pscnow.com		Page: 1 of 1		TA Job #:	
Company: Solutia Inc.		Address: 575 Maryville Centre Dr.		City: Saint Louis		State, Zip: Missouri 63141		Phone: 603-778-1100 x234	
Email: crawford@xdd-llc.com		Project Name: XDD - Solutia BIG MO		Site: Saugat, IL		Due Date Requested:		TAT Requested (days):	
Standard		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli)	
PO #:		WO #:		Project #:		SOW #:		Field Filtered Sample (Yes or No)	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Perform MS/MSD (Yes or No)	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		US EPA TO-15 (Level 2)	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Total Number of Containers	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Special Instructions/Note:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Preservation Codes:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		A - HCL	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		B - NaOH	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		C - Zn Acetate	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		D - Nitric Acid	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		E - NaHSO4	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		F - MeOH	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		G - Amchlor	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		H - Ascorbic Acid	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		I - Ice	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		J - DI Water	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		K - EDTA	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		L - EDA	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Other:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		M - Hexane	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		N - None	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		O - AsNaO2	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		P - Na2O4S	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Q - Na2SO3	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		R - Na2S2SO3	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		S - H2SO4	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		T - TSP Dodecahydrate	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		U - Acetone	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		V - MCAA	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		W - ph 4-5	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Z - other (specify)	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Special Instructions/Note:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		1 POOL RECID AMBIENT	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		FIELD EX # 4017 TO 52 1376	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		NO CUSTODY SEAL ES 5/28/10	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Special Instructions/QC Requirements:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Empty Kit Relinquished by:	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Relinquished by: <i>Reggie Gardner</i>	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Relinquished by: _____	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Relinquished by: _____	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Custody Seals Intact: _____	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Custody Seal No.: _____	
Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Solutia - Saugat BIG MO		Cooler Temperature(s) °C and Other Remarks:	

TEST AMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 10E-280-110

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 checked="" type="checkbox"/>			<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:	<u>4/A</u>
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 checked="" type="checkbox"/>		<input type="checkbox"/> 2a Temp Blank = _____ <input type="checkbox"/> 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?		<input checked="" type="checkbox"/>		<input type="checkbox"/> 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?		<input checked="" type="checkbox"/>		<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 checked="" type="checkbox"/>			<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 checked="" type="checkbox"/>			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 9a Could not be determined due to matrix interference <input type="checkbox"/> 10a Holding time expired	
10. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Incomplete information	
11. For rad samples, was sample activity info. provided?		<input checked="" type="checkbox"/>		If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
12. For 1613B water samples is pH<9?		<input checked="" type="checkbox"/>		<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
13. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> 14a Not relinquished <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information <input type="checkbox"/> 15a Incomplete information	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>				
15. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>				
16. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>				
17. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>				
18. Is the client and project name/# identified?	<input checked="" type="checkbox"/>				
19. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>				

Quote #: 80NS0 PM Instructions: NA

Sample Receiving Associate: [Signature] Date: 3/28/10

QA026R21.doc, 090409

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: H0E280416

Initial Can Pressure					Subsequent Dilutions													
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (- in or + psig)	Analyst/Date	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
PDF 5-28-10	1440	28.75	L17HF	04738										② +29.5	04738	2	+29.8	8633