US ERA ARCHIVE DOCUMENT



ANALYTICAL REPORT

Job Number: 680-59177-1

Job Description: WGK Vapor Sampling 7/6/10

For:

Solutia Inc. 575 Maryville Centre Dr. Saint Louis, MO 63141

Attention: Mr. William G Johnson

Lidya gricia

Approved for release Lidya Gulizia Project Manager I 7/29/2010 12:02 PM

Lidya Gulizia Project Manager I lidya.gulizia@testamericainc.com 07/29/2010

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.

TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404 Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com



Job Narrative Savannah 680-59177-1 / Knoxville H0G070420

Receipt

Following sample collection, the air sample was sent directly to TestAmerica Knoxville for analysis and was received in good condition on July 7, 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: 680-59177-1

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: 680-59177-1

			Date/Time	Date/Time	
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received	
680-59177-1	WGK-BIGMO-SVE-Line A-V	Air - Tedlar Bag	07/06/2010 1510	07/07/2010 1000	
680-59177-2	WGK-BIGMO-TMX-INF-A	Air - Tedlar Bag	07/06/2010 1505	07/07/2010 1000	
680-59177-3	WGK-BIGMO-TMX-EFF-A	Air - Tedlar Bag	07/06/2010 1500	07/07/2010 1000	

SAMPLE RESULTS

H0G070420 Analytical Report	1
Sample Receipt Documentation	17
Total Number of Pages	19



TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 680-59177

Solutia Vapor Sampling

Lot #: H0G070420

Lidya Gulizia

TestAmerica Savannah 5102 Laroche Avenue Savannah, GA 31404

TESTAMERICA LABORATORIES, INC.

Project Manager

July 27, 2010

ANALYTICAL METHODS SUMMARY

H0G070420

	ANALYTICAL
PARAMETER	METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

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

SAMPLE SUMMARY

H0G070420

WO # SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L3VJW 001 L3VJX 002 L3VJ1 003	WGK-BIGMO-SVE-LINE A-V WGK-BIGMO-TMX-INF-A WGK-BIGMO-TMX-EFF-A	07/06/10 07/06/10 07/06/10	15:05

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 H0G070420

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 samples were received on 7/7/10 in Tedlar bags and transferred into Summa Canisters within 72 hours of sampling.

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.

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

GC/MS Volatiles

Lot-Sample #...: H0G070420-001 Work Order #...: L3VJW1AA Matrix...... AIR

Date Sampled...: 07/06/10 Date Received..: 07/07/10 Prep Date....: 07/20/10 Analysis Date..: 07/21/10

Prep Batch #...: 0202161

Dilution Factor: 100329.2 Method..... EPA-2 TO-15

REPORTING RESULT	-			
Dichlorodifluoromethane ND 20000 ppb(v/v) 1,2-Dichloro- ND 20000 ppb(v/v) 1,1,2,2-tetrafluoroethane ND 50000 ppb(v/v) Chloromethane ND 50000 ppb(v/v) Vinyl chloride ND 20000 ppb(v/v) Bromomethane ND 20000 ppb(v/v) Chloroethane ND 20000 ppb(v/v) Trichloroethene ND 20000 ppb(v/v) 1,1,2-Trichloro- ND 20000 ppb(v/v) 1,1,2-Trichloroethane ND 20000 ppb(v/v) Methylene chloride ND 50000 ppb(v/v) 1,1-Dichloroethane ND 20000 ppb(v/v) 1,1-Trichloroethane ND 20000 ppb(v/v) 1,1,1-Trichloroethane ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) Trichloroethane ND 20000 ppb(v/v) Trichloropropane ND <td< th=""><th></th><th></th><th></th><th></th></td<>				
1,2-Dichloro-		* *************************************		····
1,1,2,2-tetrafluoroethane				
Chloromethane	1,2-Dichloro-	ND	20000	ppb (v/v)
Vinyl chloride ND 20000 ppb(v/v) Bromomethane ND 20000 ppb (v/v) Chloroethane ND 20000 ppb (v/v) Trichlorofluoromethane ND 20000 ppb (v/v) 1,1-Dichloroethene ND 20000 ppb (v/v) 1,1,2-Trichloro- ND 20000 ppb (v/v) 1,2,2-trifluoroethane ND 20000 ppb (v/v) Methylene chloride ND 20000 ppb (v/v) 1,1-Dichloroethane ND 20000 ppb (v/v) 1,1-Trichloroethane ND 20000 ppb (v/v) Chloroform ND 20000 ppb (v/v) Carbon tetrachloride ND 20000 ppb (v/v) Carbon tetrachloride ND 20000 ppb (v/v) Benzene 1000000 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) Toluene ND <t< td=""><td>1,1,2,2-tetrafluoroethane</td><td></td><td></td><td></td></t<>	1,1,2,2-tetrafluoroethane			
Bromomethane		ND	50000	
Chloroethane ND 20000 ppb (v/v) Trichlorofluoromethane ND 20000 ppb (v/v) 1,1-Dichloroethene ND 20000 ppb (v/v) 1,1,2-Trichloro- ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 50000 ppb (v/v) Methylene chloride ND 20000 ppb (v/v) 1,1-Dichloroethane ND 20000 ppb (v/v) 1,1-Dichloroethane ND 20000 ppb (v/v) Chloroform ND 20000 ppb (v/v) 1,1,1-Trichloroethane ND 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) 1,2-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) 1,2-Dibromoethane	Vinyl chloride	ND	20000	
Trichlorofluoromethane ND 20000 ppb (v/v) 1,1-Dichloroethene ND 20000 ppb (v/v) 1,1,2-Trichloro- ND 20000 ppb (v/v) 1,2,2-trifluoroethane Methylene chloride ND 50000 ppb (v/v) 1,1-Dichloroethane ND 20000 ppb (v/v) 1,1-Dichloroethane ND 20000 ppb (v/v) cis-1,2-Dichloroethene ND 20000 ppb (v/v) Chloroform ND 20000 ppb (v/v) 1,1,1-Trichloroethane ND 20000 ppb (v/v) 2arbon tetrachloride ND 20000 ppb (v/v) Benzene 1000000 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) Trichloroethene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) Tetrachloroethene ND 20000 ppb (v/v) 1,2-Trichloroethane ND 20000 ppb (v/v) Ctaras-1,3-Dichloropropene ND 20000 ppb (v/v) Ctaras-1,3-Dichloropropene ND 20000 ppb (v/v) Tetrachloroethene ND 20000 ppb (v/v) 1,2-Trichloroethane ND 20000 ppb (v/v) Cthorobenzene ND 20000 ppb (v/v) Tetrachloroethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v)	Bromomethane	ND	20000	
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Methylene chloride	1,1-Dichloroethene	ND	20000	
Methylene chloride ND 50000 ppb(v/v) 1,1-Dichloroethane ND 20000 ppb(v/v) cis-1,2-Dichloroethene ND 20000 ppb(v/v) Chloroform ND 20000 ppb(v/v) 1,1,1-Trichloroethane ND 20000 ppb(v/v) Carbon tetrachloride ND 20000 ppb(v/v) Benzene 1000000 20000 ppb(v/v) 1,2-Dichloroethane ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) Toluene ND 20000 ppb(v/v) trans-1,3-Dichloropropene ND 20000 ppb(v/v) 1,1,2-Trichloroethane ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) Ethylbenzene ND	1,1,2-Trichloro-	ND	20000	ppb(v/v)
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Chloroform ND 20000 ppb(v/v) 1,1,1-Trichloroethane ND 20000 ppb(v/v) Carbon tetrachloride ND 20000 ppb(v/v) Benzene 1000000 20000 ppb(v/v) 1,2-Dichloroethane ND 20000 ppb(v/v) Trichloroethane ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) 1,2-Dichloropropene ND 20000 ppb(v/v) Toluene ND 20000 ppb(v/v) trans-1,3-Dichloropropene ND 20000 ppb(v/v) trans-1,3-Dichloropropene ND 20000 ppb(v/v) 1,1,2-Trichloroethane ND 20000 ppb(v/v) Tetrachloroethane ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) Chlorobenzene ND 20000 ppb(v/v) Ethylbenzene ND 20000 ppb(v/v) Tylene ppb(v/v)	1,1-Dichloroethane	ND	20000	ppb(v/v)
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Carbon tetrachloride ND 20000 ppb(v/v) Benzene 1000000 20000 ppb(v/v) 1,2-Dichloroethane ND 20000 ppb(v/v) Trichloroethene ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) cis-1,3-Dichloropropene ND 20000 ppb(v/v) Toluene ND 20000 ppb(v/v) trans-1,3-Dichloropropene ND 20000 ppb(v/v) 1,1,2-Trichloroethane ND 20000 ppb(v/v) Tetrachloroethane ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) Chlorobenzene ND 20000 ppb(v/v) Ethylbenzene ND 20000 ppb(v/v) m-Xylene & p-Xylene ND 20000 ppb(v/v) o-Xylene ND 20000 ppb(v/v) styrene ND 20000 ppb(v/v) 1,2,2-Tetrachloroethane ND 20000 </td <td>Chloroform</td> <td>ND</td> <td>20000</td> <td>ppb(v/v)</td>	Chloroform	ND	20000	ppb(v/v)
Benzene 1000000 20000 ppb (v/v) 1,2-Dichloroethane ND 20000 ppb (v/v) Trichloroethene ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) cis-1,3-Dichloropropene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethane ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND	1,1,1-Trichloroethane	ND	20000	ppb(v/v)
1,2-Dichloroethane ND 20000 ppb(v/v) Trichloroethene ND 20000 ppb(v/v) 1,2-Dichloropropane ND 20000 ppb(v/v) cis-1,3-Dichloropropene ND 20000 ppb(v/v) Toluene ND 20000 ppb(v/v) trans-1,3-Dichloropropene ND 20000 ppb(v/v) 1,1,2-Trichloroethane ND 20000 ppb(v/v) Tetrachloroethane ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) Chlorobenzene ND 20000 ppb(v/v) Ethylbenzene ND 20000 ppb(v/v) m-Xylene & p-Xylene ND 20000 ppb(v/v) o-Xylene ND 20000 ppb(v/v) styrene ND 20000 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb(v/v) 1,3,5-Trimethylbenzene ND 20000 ppb(v/v) 1,3-Dichlorobenzene ND 20000 ppb(v/v) 1,4-Dichlorobenzene ND 200	Carbon tetrachloride	ND	20000	ppb(v/v)
Trichloroethene ND 20000 ppb (v/v) 1,2-Dichloropropane ND 20000 ppb (v/v) cis-1,3-Dichloropropene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethane ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene <td< td=""><td>Benzene</td><td>1000000</td><td>20000</td><td>ppb(v/v)</td></td<>	Benzene	1000000	20000	ppb(v/v)
1,2-Dichloropropane ND 20000 ppb (v/v) cis-1,3-Dichloropropene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethane ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	1,2-Dichloroethane	ND	20000	ppb(v/v)
cis-1,3-Dichloropropene ND 20000 ppb (v/v) Toluene ND 20000 ppb (v/v) trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethene ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v)	Trichloroethene	ND	20000	ppb(v/v)
Toluene ND 20000 ppb (v/v) trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethene ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	1,2-Dichloropropane	ND	20000	ppb(v/v)
trans-1,3-Dichloropropene ND 20000 ppb (v/v) 1,1,2-Trichloroethane ND 20000 ppb (v/v) Tetrachloroethene ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	cis-1,3-Dichloropropene	ND	20000	ppb (v/v)
1,1,2-Trichloroethane ND 20000 ppb(v/v) Tetrachloroethene ND 20000 ppb(v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb(v/v) Chlorobenzene ND 20000 ppb(v/v) Ethylbenzene ND 20000 ppb(v/v) m-Xylene & p-Xylene ND 20000 ppb(v/v) o-Xylene ND 20000 ppb(v/v) Styrene ND 20000 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb(v/v) 1,3,5-Trimethylbenzene ND 20000 ppb(v/v) 1,2,4-Trimethylbenzene ND 20000 ppb(v/v) 1,3-Dichlorobenzene ND 20000 ppb(v/v) 1,4-Dichlorobenzene ND 20000 ppb(v/v) 1,2-Dichlorobenzene ND 20000 ppb(v/v)	Toluene	ND	20000	ppb(v/v)
Tetrachloroethene ND 20000 ppb (v/v) 1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	trans-1,3-Dichloropropene	ND	20000	ppb(v/v)
1,2-Dibromoethane (EDB) ND 20000 ppb (v/v) Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	1,1,2-Trichloroethane	ND	20000	ppb(v/v)
Chlorobenzene ND 20000 ppb (v/v) Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	Tetrachloroethene	ND	20000	ppb(v/v)
Ethylbenzene ND 20000 ppb (v/v) m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	1,2-Dibromoethane (EDB)	ND	20000	ppb(v/v)
m-Xylene & p-Xylene ND 20000 ppb (v/v) o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)	Chlorobenzene	ND	20000	ppb(v/v)
m-Xylene & p-Xylene ND 20000 ppb(v/v) o-Xylene ND 20000 ppb(v/v) Styrene ND 20000 ppb(v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb(v/v) 1,3,5-Trimethylbenzene ND 20000 ppb(v/v) 1,2,4-Trimethylbenzene ND 20000 ppb(v/v) 1,3-Dichlorobenzene ND 20000 ppb(v/v) 1,4-Dichlorobenzene ND 20000 ppb(v/v) 1,2-Dichlorobenzene ND 20000 ppb(v/v)	Ethylbenzene	ND	20000	ppb(v/v)
o-Xylene ND 20000 ppb (v/v) Styrene ND 20000 ppb (v/v) $1,1,2,2$ -Tetrachloroethane ND 20000 ppb (v/v) $1,3,5$ -Trimethylbenzene ND 20000 ppb (v/v) $1,2,4$ -Trimethylbenzene ND 20000 ppb (v/v) $1,3$ -Dichlorobenzene ND 20000 ppb (v/v) $1,4$ -Dichlorobenzene ND 20000 ppb (v/v) $1,4$ -Dichlorobenzene ND 20000 ppb (v/v) $1,2$ -Dichlorobenzene ND 20000 ppb (v/v) $1,2$ -Dichlorobenzene ND 20000 ppb (v/v)	=	ND	20000	ppb(v/v)
Styrene ND 20000 ppb (v/v) 1,1,2,2-Tetrachloroethane ND 20000 ppb (v/v) 1,3,5-Trimethylbenzene ND 20000 ppb (v/v) 1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene		ND	20000	ppb(v/v)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	ND	20000	ppb(v/v)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	ND	20000	ppb(v/v)
1,2,4-Trimethylbenzene ND 20000 ppb (v/v) 1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)		ND	20000	ppb(v/v)
1,3-Dichlorobenzene ND 20000 ppb (v/v) 1,4-Dichlorobenzene ND 20000 ppb (v/v) 1,2-Dichlorobenzene ND 20000 ppb (v/v)		ND	20000	
1,4-DichlorobenzeneND20000 $ppb(v/v)$ 1,2-DichlorobenzeneND20000 $ppb(v/v)$		ND	20000	
1,2-Dichlorobenzene ND 20000 ppb(v/v)	-			
•	•			
	•			

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

GC/MS Volatiles

Lot-Sample #: H0G070420-001	Work Order #:	L3VJW1AA	Matrix AIR
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
1,2,4-Trichloro- benzene	ND	100000	ppb(v/v)
Hexachlorobutadiene	ND	100000	ppb(v/v)
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
4-Bromofluorobenzene	95	(60 - 140)	•

Client Sample ID: WGK-BIGMO-TMX-INF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-002 Work Order #...: L3VJX1AA Matrix...... AIR

 Date Sampled...:
 07/06/10
 Date Received...
 07/07/10

 Prep Date.....:
 07/20/10
 Analysis Date...
 07/21/10

Prep Batch #...: 0202161

Dilution Factor: 31535.3 Method.....: EPA-2 TO-15

-		222002231	3
DA DAMESTED	RESULT	REPORTING LIMIT	UNITS
PARAMETER Dichlorodifluoromethane	ND RESULT	6300	$\frac{\text{ppb}(v/v)}{\text{ppb}(v/v)}$
	ND ND	6300	ppb (v/v)
1,2-Dichloro-	מא	0300	PP2 (* / * /
1,1,2,2-tetrafluoroethane	ND	16000	ppb (v/v)
Chloromethane		6300	ppb (v/v)
Vinyl chloride	ND	6300	ppb(v/v)
Bromomethane	ND		ppb (v/v)
Chloroethane	ND	6300	(v/v) dqq
Trichlorofluoromethane	ND	6300	
1,1-Dichloroethene	ND	6300	ppb(v/v)
1,1,2-Trichloro-	ND	6300	ppb(v/v)
1,2,2-trifluoroethane			2 / / 2
Methylene chloride	ND	16000	ppb(v/v)
1,1-Dichloroethane	ND	6300	ppb(v/v)
cis-1,2-Dichloroethene	ND	6300	ppb(v/v)
Chloroform	ND	6300	ppb(v/v)
1,1,1-Trichloroethane	ND	6300	ppb(v/v)
Carbon tetrachloride	ND	6300	ppb(v/v)
Benzene	360000	6300	ppb(v/v)
1,2-Dichloroethane	ND	6300	ppb (v/v)
Trichloroethene	ND	6300	ppb(v/v)
1,2-Dichloropropane	ND	6300	ppb(v/v)
cis-1,3-Dichloropropene	ND	6300	ppb (v/v)
Toluene	ND	6300	ppb(v/v)
trans-1,3-Dichloropropene	ND	6300	ppb (v/v)
1,1,2-Trichloroethane	ND	6300	ppb(v/v)
Tetrachloroethene	ND	6300	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	6300	ppb(v/v)
Chlorobenzene	ND	6300	ppb(v/v)
Ethylbenzene	ND	6300	ppb (v/v)
m-Xylene & p-Xylene	ND	6300	ppb (v/v)
o-Xylene	ND	6300	ppb(v/v)
-	ND	6300	ppb (v/v)
Styrene	ND	6300	ppb (v/v)
1,1,2,2-Tetrachloroethane		6300	ppb(v/v)
1,3,5-Trimethylbenzene	ND		ppb(v/v)
1,2,4-Trimethylbenzene	ND	6300	
1,3-Dichlorobenzene	ND	6300	ppb (v/v)
1,4-Dichlorobenzene	ND	6300	ppb(v/v)
1,2-Dichlorobenzene	ND	6300	ppb(v/v)
Benzyl chloride	ND	13000	ppb(v/v)

Client Sample ID: WGK-BIGMO-TMX-INF-A

GC/MS Volatiles

Lot-Sample #: H0G070420-002	Work Order #:	L3VJX1AA	Matrix AIR
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
1,2,4-Trichloro- benzene	ND	32000	ppb(v/v)
Hexachlorobutadiene	ND	32000	ppb(v/v)
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
4-Bromofluorobenzene	94	(60 - 140)	

Client Sample ID: WGK-BIGMO-TMX-EFF-A

GC/MS Volatiles

Lot-Sample #...: H0G070420-003 Work Order #...: L3VJ11AA Matrix...... AIR

 Date Sampled...:
 07/06/10
 Date Received...
 07/07/10

 Prep Date.....:
 07/20/10
 Analysis Date...
 07/21/10

Prep Batch #...: 0202161

Dilution Factor: 19.97 Method.....: EPA-2 TO-15

·m		REPORTING	7
	RESULT	LIMIT	UNITS
PARAMETER	ND	4.0	ppb (v/v)
Dichlorodifluoromethane	ND	4.0	ppb(v/v)
1,2-Dichloro- 1,1,2,2-tetrafluoroethane	IAD	1.0	PP (· /
	ND	10	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
Vinyl chloride Bromomethane	ND	4.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Trichlorofluoromethane	ND	4.0	ppb (v/v)
1,1-Dichloroethene	ND	4.0	ppb(v/v)
1,1,2-Trichloro-	ND	4.0	ppb (v/v)
1,2,2-trifluoroethane	110		1.1
Methylene chloride	14	10	ppb(v/v)
1,1-Dichloroethane	ND	4.0	ppb(v/v)
cis-1,2-Dichloroethene	ND	4.0	ppb(v/v)
Chloroform	ND	4.0	ppb (v/v)
1,1,1-Trichloroethane	ND	4.0	ppb (v/v)
Carbon tetrachloride	ND	4.0	ppb(v/v)
Benzene	6.7	4.0	ppb (v/v)
1,2-Dichloroethane	ND	4.0	ppb(v/v)
Trichloroethene	ND	4.0	ppb(v/v)
1,2-Dichloropropane	ND	4.0	ppb(v/v)
cis-1,3-Dichloropropene	ND	4.0	ppb(v/v)
Toluene	ND	4.0	ppb (v/v)
trans-1,3-Dichloropropene	ND	4.0	ppb(v/v)
1,1,2-Trichloroethane	ND	4.0	ppb(v/v)
Tetrachloroethene	ND	4.0	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	4.0	ppb(v/v)
Chlorobenzene	ND	4.0	ppb(v/v)
Ethylbenzene	ND	4.0	ppb(v/v)
m-Xylene & p-Xylene	ND	4.0	ppb(v/v)
o-Xylene	ND	4.0	ppb (v/v)
Styrene	ND	4.0	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	4.0	ppb(v/v)
1,3,5-Trimethylbenzene	ND	4.0	ppb(v/v)
1,2,4-Trimethylbenzene	ND	4.0	ppb(v/v)
1,3-Dichlorobenzene	ND	4.0	ppb(v/v)
1,4-Dichlorobenzene	ND	4.0	ppb(v/v)
1,2-Dichlorobenzene	ND	4.0	ppb(v/v)
Benzyl chloride	ND	8.0	ppb(v/v)
DOILD'S T. CILLOTTAC			

Client Sample ID: WGK-BIGMO-TMX-EFF-A

GC/MS Volatiles

Lot-Sample #: H0G070420-003	Work Order #:	L3VJ11AA	Matrix AIR
PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,2,4-Trichloro-	ND	20	ppb(v/v)
benzene Hexachlorobutadiene	ND	20	ppb(v/v)
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS (60 - 140)	
4-Bromofluorobenzene	96	(00 140)	

US EPA ARCHIVE DOCUMENT

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 Work Order #...: L4F7L1AA Matrix...... AIR

MB Lot-Sample #: H0G210000-161

Prep Date....: 07/20/10

Analysis Date..: 07/20/10

Prep Batch #...: 0202161

Dilution Factor: 1

Dichlorodifluoromethane	-		REPORTIN	īG	
Dichlorodifluoromethane ND	DARAMETER	RESULT	LIMIT	UNITS	
1,2-Dichloro- ND		***************************************	0.20	ppb (v/v)	
Chloromethane ND 0.50 ppb(v/v) EPA-2 TO-15 vinyl chloride ND 0.20 ppb(v/v) EPA-2 TO-15 Promomethane (EDB) ND 0.20 ppb(v/v) EPA-2 TO-15 Promomethane ND 0.20 ppb(v/v) EPA-2 TO-15 Pro		ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane					
Vinyl chloride ND		ND	0.50	ppb(v/v)	
Bromomethane		ND	0.20	ppb (v/v)	
Chloroethane		ND	0.20		
Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloro- ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloro- ND 0.20 ppb(v/v) EPA-2 TO-15 1,2,2-trifluoroethane ND 0.50 ppb(v/v) EPA-2 TO-15 1,2,2-trifluoroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,1-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloropropane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloropropane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichloropropane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dibromoethane (EDB) ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dibromoethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dibromoethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dibromoethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane 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 1,2,2-Tetrachloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2,2-Tetrachloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2,2-Tetrachloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 1,2-Dichlorobenzen		ND	0.20	ppb(v/v)	
1,1-Dichloroethene		ND	0.20		
1,1,2-Trichloro- ND		ND	0.20	ppb(v/v)	
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 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 cis-1,3-Dichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 cis-1,3-Dichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 cis-1,3-Dichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 cis-1,3-Dichloropropane <td< td=""><td></td><td>ND</td><td>0.20</td><td>ppb(v/v)</td><td>EPA-2 TO-15</td></td<>		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 Benzene ND 0.20 ppb (v/v) EPA-2 TO-15 Trichloroethane ND 0.20 ppb (v/v) EPA-2 TO-15 Trichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 To-1bichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 To-1cichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 To-1bichloropropane ND 0.20 ppb (v/v) EPA-2 TO-15 To-1cichloropropane ND					
1,1-Dichloroethane		ND	0.50	ppb(v/v)	
Cis-1,2-Dichloroethene ND 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 1,1,1-Trichloroethane ND 0.20 Ppb (v/v) EPA-2 TO-15 1,2-Dichloroethane ND 0.20 Ppb (v/v) EPA-2 TO-15 Benzene 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 Trichloroethane ND 0.20 Ppb (v/v) EPA-2 TO-15 Trichloropropane ND 0.20 Ppb (v/v) EPA-2 TO-15 Toluene ND 0.20 Ppb (v/v) EPA-2 TO-15 Toluene ND 0.20 Ppb (v/v) EPA-2 TO-15 Toluene ND 0.20 Ppb (v/v) EPA-2 TO-15 Trichloropropene ND 0.20 Ppb (v/v) EPA-2 TO-15 Tetrachloroethane ND 0.20 Ppb (v/v) EPA-2 TO-15 Tetrachloroethane ND 0.20 Ppb (v/v) EPA-2 TO-15 1,2-Dibromoethane (EDB) 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 Styrene ND 0.20 Ppb (v/v) EPA-2 TO-15 Styrene ND 0.20 Ppb (v/v) EPA-2 TO-15 Styrene ND 0.20 Ppb (v/v) EPA-2 TO-15 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-Trinethylbenzene ND 0.20 Ppb (v/v) EPA-2 TO-15 1,2-Dichlorobenzene ND 0.20 Ppb (v/v) EPA		ND	0.20		
Chloroform 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 P		ND	0.20		
1,1,1-Trichloroethane		ND	0.20	ppb(v/v)	
Carbon tetrachloride		ND	0.20		
Benzene		ND	0.20		
1,2-Dichloroethane		ND	0.20		
Trichloroethene 1,2-Dichloropropane ND 0.20 ppb(v/v) EPA-2 TO-15 ppb(v/v) EPA-2 TO-15 1,2-Dichloropropane ND 0.20 ppb(v/v) EPA-2 TO-15 1,3-Dichloropropene ND 0.20 ppb(v/v) EPA-2 TO-15 Toluene ND 0.20 ppb(v/v) EPA-2 TO-15 Toluene ND 0.20 ppb(v/v) EPA-2 TO-15 Toluene ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 1,1,2-Trichloroethane ND 0.20 ppb(v/v) EPA-2 TO-15 Tetrachloroethane 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 Ethylbenzene ND 0.20 ppb(v/v) EPA-2 TO-15 EN-Xylene & p-Xylene ND 0.20 ppb(v/v) EPA-2 TO-15 EN-Xylene 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 1,4-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 1,4-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 EPA-2 TO-15 1,2-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 EPA-2 TO-15 1,2-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 EPA-2 TO-15 EPA-2 TO-15 1,2-Dichlorobenzene ND 0.20 ppb(v/v) EPA-2 TO-15 EPA-2		ND	0.20		
1,2-Dichloropropane	•	ND	0.20		
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 Styrene ND 0.20 ppb (v/v) EPA-2 TO-15 1,3,5-Trimethylbenzene ND 0.20 ppb (v/v) EPA-2 TO-15 1,3-Dichlorobenzene ND 0.20<		ND	0.20		
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 Styrene ND 0.20 ppb (v/v) EPA-2 TO-15 Styrene ND 0.20 ppb (v/v) EPA-2 TO-15 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 1,3,5-Trimethylbenzene ND 0.20 ppb (v/v) EPA-2 TO-15 1,3-Dichlorobenzene ND 0.20 ppb (v/v) EPA-2 TO-15 1,3-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 1,2-Trichloro- ND 0.40 ppb (v/v) EPA-2 TO-15 1,2,4-Trichloro- ND 0.40 ppb (v/v) EPA-2 TO-15		ND	0.20	ppb(v/v)	
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 Tetrachloroethane 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 <		ND	0.20		
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 1,4-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		ND	0.20	ppb(v/v)	
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 1,2-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- ND 1.0 ppb (v/v) EPA-2 TO-15		ND	0.20		
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 1,4-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- ND 1.0 ppb (v/v) EPA-2 TO-15		ND	0.20		
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- ND 1.0 ppb (v/v) EPA-2 TO-15		ND	0.20		
### Ethylbenzene		ND	0.20		
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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		
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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		
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- ND 1.0 ppb (v/v) EPA-2 TO-15	-	ND	0.20		
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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		
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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		
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- ND 1.0 ppb (v/v) EPA-2 TO-15		ND	0.20	ppb(v/v)	
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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		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- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.20		EPA-2 TO-15
1,2-DichlorobenzeneND 0.20 $ppb(v/v)$ $EPA-2$ TO-15Benzyl chlorideND 0.40 $ppb(v/v)$ $EPA-2$ TO-151,2,4-Trichloro-ND 1.0 $ppb(v/v)$ $EPA-2$ TO-15		ND	0.20		
Benzyl chloride ND 0.40 ppb (v/v) EPA-2 TO-15 $1,2,4$ -Trichloro- ND 1.0 ppb (v/v) EPA-2 TO-15		ND	0.20		
1,2,4-Trichloro- ND 1.0 ppb(v/v) EPA-2 TO-15		ND	0.40		
	-	ND	1.0	ppb(v/v)	EPA-2 TO-15
	benzene				

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #: H0G070420	Work Order #.	: L4F7L1A	A M a	trix AIR
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	1.0	ppb(v/v)	EPA-2 TO-15
-	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS	anara.	
4-Bromofluorobenzene	97	(60 - 140)	

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 Work Order #...: L4F7L1AC Matrix...... AIR

LCS Lot-Sample#: H0G210000-161

Prep Date....: 07/20/10 Analysis Date..: 07/20/10

Prep Batch #...: 0202161

Dilution Factor: 1

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
Dichlorodifluoromethane	100	(60 - 140)	EPA-2 TO-15
1,2-Dichloro-	103	(60 - 140)	EPA-2 TO-15
1,1,2,2-tetrafluoroethane			
Chloromethane	103	(60 - 140)	EPA-2 TO-15
Vinyl chloride	101	(70 - 130)	EPA-2 TO-15
Bromomethane	98	(70 - 130)	EPA-2 TO-15
Chloroethane	98	(70 - 130)	EPA-2 TO-15
Trichlorofluoromethane	97	(60 - 140)	EPA-2 TO-15
1,1-Dichloroethene	100	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloro-	99	(70 - 130)	EPA-2 TO-15
1,2,2-trifluoroethane			
Methylene chloride	94	(70 - 130)	EPA-2 TO-15
1,1-Dichloroethane	96	(70 - 130)	EPA-2 TO-15
cis-1,2-Dichloroethene	97	(70 - 130)	EPA-2 TO-15
Chloroform	94	(70 - 130)	EPA-2 TO-15
1,1,1-Trichloroethane	95	(70 - 130)	EPA-2 TO-15
Carbon tetrachloride	107	(70 - 130)	EPA-2 TO-15
Benzene	100	(70 - 130)	EPA-2 TO-15
1,2-Dichloroethane	96	(70 - 130)	EPA-2 TO-15
Trichloroethene	100	(70 - 130)	EPA-2 TO-15
1,2-Dichloropropane	103	(70 - 130)	EPA-2 TO-15
cis-1,3-Dichloropropene	101	(70 - 130)	EPA-2 TO-15
Toluene	100	(70 - 130)	EPA-2 TO-15
trans-1,3-Dichloropropene	99	(70 - 130)	EPA-2 TO-15
1,1,2-Trichloroethane	104	(70 - 130)	EPA-2 TO-15
Tetrachloroethene	97	(70 - 130)	EPA-2 TO-15
1,2-Dibromoethane (KDB)	100	(70 - 130)	EPA-2 TO-15
Chlorobenzene	102	(70 - 130)	EPA-2 TO-15
Ethylbenzene	107	(70 - 130)	EPA-2 TO-15
m-Xylene & p-Xylene	110	(70 - 130)	EPA-2 TO-15
o-Xylene	113	(70 - 130)	EPA-2 TO-15
Styrene	117	(70 - 130)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	117	(70 - 130)	EPA-2 TO-15
1,3,5-Trimethylbenzene	120	(70 - 130)	EPA-2 TO-15

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 Work Order #...: L4F7L1AC Matrix...... AIR

LCS Lot-Sample#: H0G210000-161

	PERCENT	RECOVERY	
PARAMETER	RECOVERY	LIMITS	METHOD
1,2,4-Trimethylbenzene	118	(70 - 130)	EPA-2 TO-15
1,3-Dichlorobenzene	108	(70 - 130)	EPA-2 TO-15
1,4-Dichlorobenzene	107	(70 - 130)	EPA-2 TO-15
1.2-Dichlorobenzene	109	(70 - 130)	EPA-2 TO-15
Benzyl chloride	107	(70 - 130)	EPA-2 TO-15
1,2,4-Trichloro-	100	(60 - 140)	EPA-2 TO-15
benzene			
Hexachlorobutadiene	102	(60 - 140)	EPA-2 TO-15
		PERCENT	RECOVERY
SURROGATE		RECOVERY	LIMITS
4-Bromofluorobenzene		107	(60 - 140)
••• ••• ••• ••• ••			

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 #...: H0G070420 Work Order #...: L4F7L1AC Matrix.....: AIR

LCS Lot-Sample#: H0G210000-161

Prep Date....: 07/20/10 Analysis Date..: 07/20/10

Prep Batch #...: 0202161

Dilution Factor: 1

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
Dichlorodifluoromethane	5.00	5.00	$\overline{\mathrm{ppb}}(\mathrm{v/v})$	100	EPA-2 TO-15
1,2-Dichloro-	5.00	5.14	ppb(v/v)	103	EPA-2 TO-15
1,1,2,2-tetrafluoroethane					
Chloromethane	5.00	5.17	ppb(v/v)	103	EPA-2 TO-15
Vinyl chloride	5.00	5.03	ppb(v/v)	101	EPA-2 TO-15
Bromomethane	5.00	4.88	ppb(v/v)	98	EPA-2 TO-15
Chloroethane	5.00	4.89	ppb(v/v)	98	EPA-2 TO-15
Trichlorofluoromethane	5.00	4.83	ppb (v/v)	97	EPA-2 TO-15
1,1-Dichloroethene	5.00	5.02	ppb(v/v)	100	EPA-2 TO-15
1,1,2-Trichloro-	5.00	4.96	ppb(v/v)	99	EPA-2 TO-15
1,2,2-trifluoroethane					
Methylene chloride	5.00	4.72	ppb(v/v)	94	EPA-2 TO-15
1,1-Dichloroethane	5.00	4.81	ppb(v/v)	96	EPA-2 TO-15
cis-1,2-Dichloroethene	5.00	4.84	ppb(v/v)	97	EPA-2 TO-15
Chloroform	5.00	4.72	ppb(v/v)	94	EPA-2 TO-15
1,1,1-Trichloroethane	5.00	4.75	ppb(v/v)	95	EPA-2 TO-15
Carbon tetrachloride	5.00	5.35	ppb(v/v)	107	EPA-2 TO-15
Benzene	5.00	5.01	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloroethane	5.00	4.79	ppb(v/v)	96	EPA-2 TO-15
Trichloroethene	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
1,2-Dichloropropane	5.00	5.16	ppb(v/v)	103	EPA-2 TO-15
cis-1,3-Dichloropropene	5.00	5.04	ppb(v/v)	101	EPA-2 TO-15
Toluene	5.00	5.00	ppb(v/v)	100	EPA-2 TO-15
trans-1,3-Dichloropropene	5.00	4.93	ppb(v/v)	99	EPA-2 TO-15
1,1,2-Trichloroethane	5.00	5.18	ppb(v/v)	104	EPA-2 TO-15
Tetrachloroethene	5.00	4.86	ppb(v/v)	97	EPA-2 TO-15
1,2-Dibromoethane (EDB)	5.00	5.00	ppb (v/v)	100	EPA-2 TO-15
Chlorobenzene	5.00	5.12	ppb(v/v)	102	EPA-2 TO-15
Ethylbenzene	5.00	5.36	ppb(v/v)	107	EPA-2 TO-15
m-Xylene & p-Xylene	10.0	11.0	ppb(v/v)	110	EPA-2 TO-15
o-Xylene	5.00	5.63	ppb(v/v)	113	EPA-2 TO-15
Styrene	5.00	5.87	ppb(v/v)	117	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	5.00	5.87	ppb(v/v)	117	EPA-2 TO-15
1,3,5-Trimethylbenzene	5.00	6.02	ppb(v/v)	120	EPA-2 TO-15

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H0G070420 Work Order #...: L4F7L1AC Matrix...... AIR

LCS Lot-Sample#: H0G210000-161

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	UNITS	RECOVERY	METHOD
1,2,4-Trimethylbenzene	5.00	5.91	ppb (v/v)	118	EPA-2 TO-15
1,3-Dichlorobenzene	5.00	5.39	ppb(v/v)	108	EPA-2 TO-15
1,4-Dichlorobenzene	5.00	5.34	ppb(v/v)	107	EPA-2 TO-15
1,2-Dichlorobenzene	5.00	5.45	ppb(v/v)	109	EPA-2 TO-15
Benzyl chloride	5.00	5.34	ppb(v/v)	107	EPA-2 TO-15
1,2,4-Trichloro- benzene	5.00	5.00	ppb (v/v)	100	EPA-2 TO-15
Hexachlorobutadiene	5.00	5.08	ppb(v/v)	102	EPA-2 TO-15
SURROGATE		PERCENT RECOVERY	RECOVERY LIMITS		
4-Bromofluorobenzene		107	(60 - 140)		

NOTE(S):

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

Bold print denotes control parameters

US EPA ARCHIVE DOCUMENT

DOCUMENT
ໄປໂຣປິວາທາດ Chain of Custody Record



	Sampler:		Lab PM:			Carrier Tracking No(s):	÷	COC No:	
Client Information	Reggie Gardner - PSC		Lidya G	ulizia		redex	1670 0,00	.0000	
Client Contact:	Phone: 618-407-3811		E-Mail: rqardne	E-Mail: rqardner@pscnow.com	com	010s X	1.00	1 of 1	
VIIIIBITI JOINISON							13266	TA Job #:	
Solutia Inc.					Analysis Requested	↓			
Address: 575 Marwille Centre Dr.	Due Date Requested:							Preservation Codes A - HCL M	ies: M - Hexane
City: Saint Louis	TAT Requested (days):	Standard						B - NaOH C - Zn Acetate	N - None O - AsNaO2 P - Na2O4S
State, Zip: Missouri 63141	1							E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2SO3
Phone: 603-778-1100 x234	PO#:		(0)					G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: crawford@xdd-llc.com	WO#:		110 s	oleologic back			ers		V - MCAA W - ph 4-5
Project Name: XDD - Solutia BIG MO	Project #: Solutia - Sauget BIG MO	0	9 λ) θ [10 SƏ <i>)</i>			niejno		Z - other (specify)
Site: Sauget, IL	:#MOSS		IMES.) asv			10101	Odleti	
Pag			Matrix et (wewater, Et Sasolid, Oswasteloli, et State	MSM mohe r-OT A93 S			edmuN leto		,
Sample Identification	Sample Date Time	G=grab) Preserva	G=grab) BT=Tfssus, A=Alr.) III. Preservation Code:	чX					Special Ilistructionis/Note:
WGK-BIGMO-SVE-Line A-V	7/6/2010 151	2	¥	×					
WGK-BIGMO-TMX-INF-A	7 16/2010 150	75 G	A	×				7	boxes
25 W C-K- Blamo-TMX-EFF-A	7/6/2010 1500	<i>b</i>	ď	×				NO CU	custody scols
								rec. at c	at ambient temp.
								Feel ex 3	#
								87033	8703 2907 0697
				Sample D	ee may be	ıssessed if samp	oles are retain	ned longer than	1 month)
Non-Hazard — Flammable Skin Irritant — Poi	Poison B Unknown	Radiological	,r	Rett	Return To Client Disp	Disposal By Lab]	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)				opecial III	sti dettoris/ de ivequirente	I			
Empty Kit Relinquished by:	Date:		-	Time:		Method of Shipment:	oment:		
Relinquished by:	Date/Time: Date/Time:	1900	Company PSC	Redeive	Redeived by.	Da	Date/Time 7 7 10	10:00	Company
Relinquished by:	Date/Fime/		Company	Received by:	ed by:	Da	te/ lime:		Company
Relinquished by:	Date/Time:		Company	Received by:	əd by:		Date/Time:		Company
Custody Seals Intact: Custody Seal No.:				Cooler	Cooler Temperature(s) °C and Other Remarks:	əmarks:			
A Tes A NO									

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TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Lot Number: \\\ \frac{1}{1}\lbrace \beta \beta \rbrace \beta \beta \rbrace \beta \beta \rbrace \beta \beta \rbrace \beta \beta

Review Items	Yes	°Z	ž	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC?				☐ 1a Do not match COC	<u>\$</u>
(IDs, Dates, Times)				☐ 1b Incomplete information	
	/			☐ 1c Marking smeared	
	>			□ 1d Label torn	
				☐ 1e No label	
				☐ 1f COC not received	
				⊔ Ig Omer:	
 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) 				□ 2a Temp Blank =	
3. Were samples received with correct chemical preservative (excluding Faccus)?			1	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or		\dagger		Not present	
containers?		\sum		□ 4b Not intact	
				□ 4c Other:	
5. Were all of the samples listed on the COC received?				☐ 5a Samples received-not on COC	
	>			☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	/	***************************************		□ 6a Leaking	
	>		\neg	□ 6b Broken	
7. Were VOA samples received without headspace?	_		>	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	>			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			/	□ 9a Could not be determined due	
	_		>	to matrix interference	The state of the s
10. Were samples received within holding time?	>			.□ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			>	☐ Incomplete information	
12. For 1613B water samples is pH<9?			>	If no, was pH adjusted to pH 7 - 9 with sulfuric acid?	
- 1		1	1	With Sultaile acid:	And the state of t
13. Are the shipping containers intact?	7			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	>			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	>			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	>			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	>			☐ 15a Incomplete information	A TABLE TO THE TAB
18. Is the client and project name/# identified?				☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	>				
Quote #: 80050 PM Instructions:	₩ W				
	-				
Sample Receiving Associate: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1	Date: 7710	QA026R21.doc, 090409

US EPA ARCHIVE DOCUMENT Lot Number: <u>H0G070420</u>

	l ·	·		ī	1
	Comments	8729	8730	+	
	Final Pres. Pf (psig)	130.4	1-30.06+	300 +0.9	
	Vol (mL)	3	-	300	
	Serial Dilution Can #	2,643,62	7410	of the '	10.0
lutions	Third InCan Final Pres. Pf (psig)			~	
Subsequent Dilutions	Second In-can Final Pres. Pf (psig)				
Sub	First InCan Final Pres. Pf (psig)	7:16+			
	Final Pres. Pf (psig)				
	Initial Pres. Pi (in)				
	Pbarr (in)				
	/ S				
	Pres. Adj. upon Initial receipt Pres. (- (-in or in or + + psig) psig) Analyst/Date				
	Adj. Initial Pres. (- in or + psig)				
	Pres. upon receipt (-in or + psig)				
0	Can#	1.00			
Initial Can Pressure	Sample ID	L3VJW	гзулх	L3VJ1	
	Pbarr (in)	28.93		-0	
	Tedlar Bag Time	1340		D	
	Tedlar Bag Pbarr Analyst/Date Time (in)	JUF-10 1340 2893		A	