Countywide Recycling & Disposal Facility
Ambient Air Monitoring
4th Quarter Report – 2010

December 23, 2010

APPENDIX A. Laboratory Analytical Results from Event #168:
Monday, October 4, 2010 to Tuesday, October 5, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 07-0082

Countywide

Lot #: H0J080569

Shawn Ansbro

Lawhon and Associates
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Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

October 18, 2010

ANALYTICAL METHODS SUMMARY

H0J080569

PARAMETER	ANALYTICAL METHOD
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

H0J080569

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L768E	001	SU-C100410	10/04/10	15:00
L768G	002	SU-G100410	10/04/10	15:00
L768J	003	SU-S100410	10/04/10	15:00
L768K	004	SU-W100410	10/04/10	15:00
L768L	005	SU-COS100410	10/04/10	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
H0J080569

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

There were no problems with the condition of the samples received.

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 10/12/10 exhibited a % difference of > 30% for 1,2-dichlorotetrafluoroethane, trichlorofluoromethane, 1,1,1-trichloroethane and 1,2,4-trichlorobenzene, the results were within the LCS acceptance limits.

Although 1,1,1-trichloroethane is flagged as being outside recovery limits in the laboratory control sample for batch 0286056, the laboratory control sample is in control. The standard operating procedure allows for 3 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.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C100410

GC/MS Volatiles

Lot-Sample #	H0J080569 - 001	Work Order #	L768E1AA	Matrix.....:	AIR

Date Sampled...:	10/04/2010	Date Received..:	10/08/2010
Prep Date.....:	10/12/2010	Analysis Date...	10/13/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**2.8**	**5.0**	**6.7**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.38**	**0.20**	**2.1**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.47**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.047**	**2.0**	**0.14**	**J**	**6.1**
Methylene chloride	**0.37**	**0.50**	**1.3**	**J**	**1.7**
Benzene	**0.085**	**0.20**	**0.27**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.12**	**0.20**	**0.44**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Triehloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.064**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: SU-C100410

GC/MS Volatiles

Lot-Sample # H0J080569 - 001 Work Order # L768E1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.10**	**0.20**	**0.66**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.98**	**0.50**	**2.0**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.71**	**0.20**	**3.5**		**0.99**
1,1-Dichloroetbane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-GI00410

GC/MS Volatiles

Lot-Sample #	H0J080569 - 002	**Work Order #**	L768G1AA	**Matrix.....:**	AIR

Date Sampled...:	10/04/2010	**Date Received..:**	10/08/2010
Prep Date.....:	10/12/2010	**Analysis Date...**	10/13/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**10**	**5.0**	**24**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.37**	**0.20**	**2.1**		**1.1**
n-Heptane	**0.093**	**0.50**	**0.38**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.16**	**0.50**	**0.55**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.38**	**0.50**	**1.3**	**J**	**1.7**
Benzene	**0.086**	**0.20**	**0.28**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.19**	**0.20**	**0.71**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.068**	**0.20**	**0.52**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.13**	**0.20**	**0.57**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.4**	**1.0**	**4.2**		**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.093**	**0.20**	**0.58**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G100410

GC/MS Volatiles

Lot-Sample # H0J080569 - 002 Work Order # L768G1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	**0.76**	**0.50**	**1.6**	**1.0**
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	**0.68**	**0.20**	**3.3**	**0.99**
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S100410

GC/MS Volatiles

Lot-Sample #	H0J080569 - 003	**Work Order #**	L768J1AA	**Matrix.....:**	AIR

Date Sampled...:	10/04/2010	**Date Received..:**	10/08/2010
Prep Date.....:	10/12/2010	**Analysis Date...**	10/13/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**2.6**	**5.0**	**6.3**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.34**	**0.20**	**1.9**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.10**	**0.50**	**0.36**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.28**	**0.50**	**0.97**	**J**	**1.7**
Benzene	**0.088**	**0.20**	**0.28**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.15**	**0.20**	**0.57**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.062**	**0.20**	**0.48**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.60**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.13**	**0.20**	**0.55**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: SU-S100410

GC/MS Volatiles

Lot-Sample # H0J080569 - 003 Work Order # L768J1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.10**	**0.20**	**0.66**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.58**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.71**	**0.20**	**3.5**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W100410

GC/MS Volatiles

Lot-Sample #	H0J080569 - 004	**Work Order #**	L768K1AA	**Matrix.....:**	AIR

Date Sampled...:	10/04/2010	**Date Received..:**	10/08/2010
Prep Date.....:	10/12/2010	**Analysis Date...**	10/12/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**5.9**	**5.0**	**14**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.35**	**0.20**	**2.0**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.49**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.40**	**0.50**	**1.4**	**J**	**1.7**
Benzene	**0.085**	**0.20**	**0.27**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.19**	**0.20**	**0.71**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.059**	**0.20**	**0.45**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.18**	**0.20**	**0.87**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.18**	**0.20**	**0.77**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.61**	**1.0**	**1.8**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.090**	**0.40**	**0.44**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.12**	**0.20**	**0.75**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W100410

GC/MS Volatiles

Lot-Sample # H0J080569 - 004 Work Order # L768K1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	0.58	0.50	1.2	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	0.68	0.20	3.4	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COS100410

GC/MS Volatiles

Lot-Sample #	H0J080569 - 005	Work Order #	L768L1AA	Matrix.....:	AIR

Date Sampled...:	10/04/2010	Date Received..:	10/08/2010
Prep Date.....:	10/12/2010	Analysis Date...	10/13/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**3.1**	**5.0**	**7.4**	**J**	**12**
Ethylbenzene	**0.068**	**0.20**	**0.30**	**J**	**0.87**
Trichlorofluoromethane	**0.38**	**0.20**	**2.1**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.46**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.45**	**0.50**	**1.6**	**J**	**1.7**
Benzene	**0.083**	**0.20**	**0.26**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.20**	**0.20**	**0.76**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.059**	**0.20**	**0.45**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.49**	**0.20**	**2.4**		**0.98**
1,3,5-Trimethylbenzene	**0.093**	**0.20**	**0.46**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.14**	**0.20**	**0.61**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.34**	**0.20**	**1.5**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.14**	**0.40**	**0.67**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.10**	**0.20**	**0.64**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS100410

GC/MS Volatiles

Lot-Sample # H0J080569 - 005 Work Order # L768L1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	**1.2**	**0.50**	**2.4**	**1.0**
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	**0.71**	**0.20**	**3.5**	**0.99**
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	113	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H0J130000 - 056B	Work Order #	L8C1K1AA	Matrix.....:	AIR
	10/08/2010	Date Received..:	10/11/2010		
Prep Date.....:	10/12/2010	Analysis Date...	10/12/2010		
Prep Batch #.....:	0286056				
Dilution Factor.:	1	Method.....:	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Acetone	ND	5.0	ND	12
Ethylbenzene	ND	0.20	ND	0.87
Trichlorofluoromethane	ND	0.20	ND	1.1
n-Heptane	ND	0.50	ND	2.0
Hexachlorobutadiene	ND	1.0	ND	11
n-Hexane	ND	0.50	ND	1.8
2,2,4-Trimethylpentane	ND	0.50	ND	2.3
tert-Butyl alcohol	ND	2.0	ND	6.1
Methylene chloride	ND	0.50	ND	1.7
Benzene	ND	0.20	ND	0.64
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
Tetrachloroethene	ND	0.20	ND	1.4
Tetrahydrofuran	ND	1.0	ND	2.9
Toluene	ND	0.20	ND	0.75
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
1,1,1-Trichloroethane	ND	0.20	ND	1.1
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Trichloroethene	ND	0.20	ND	1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
Vinyl chloride	ND	0.20	ND	0.51
o-Xylene	ND	0.20	ND	0.87
Methyl tert-butyl ether	ND	1.0	ND	3.6
m-Xylene & p-Xylene	ND	0.20	ND	0.87
Bromodichloromethane	ND	0.20	ND	1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
2-Butanone (MEK)	ND	1.0	ND	2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND	2.0
Vinyl bromide	ND	0.20	ND	0.87
Bromoform	ND	0.20	ND	2.1
Bromomethane	ND	0.20	ND	0.78
1,3-Butadiene	ND	0.40	ND	0.88
4-Ethyltoluene	ND	0.40	ND	2.0
Carbon disulfide	ND	0.50	ND	1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0J130000 - 056B Work Order # L8C1K1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0J130000 - 056C Work Order # L8C1K1AC Matrix.....: AIR

	10/08/2010	Date Received..:	10/11/2010
Prep Date.....:	10/12/2010	Analysis Date...	10/12/2010
Prep Batch #.....:	0286056		
Dilution Factor.:	1	Method.....:	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
trans-1,3-Dichloropropene	5.00	4.70	23	21	94		70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	6.93	35	48	139		60 - 140
Acetone	5.00	5.90	12	14	118		60 - 140
Ethylbenzene	5.00	4.29	22	19	86		70 - 130
Trichlorofluoromethane	5.00	6.75	28	38	135		60 - 140
n-Heptane	5.00	4.33	20	18	87		70 - 130
Hexachlorobutadiene	5.00	3.95	53	42	79		60 - 140
n-Hexane	5.00	5.03	18	18	101		70 - 130
2,2,4-Trimethylpentane	5.00	4.37	23	20	87		70 - 130
tert-Butyl alcohol	5.00	5.47	15	17	109		60 - 140
Methylene chloride	5.00	4.23	17	15	85		70 - 130
Benzene	5.00	3.72	16	12	74		70 - 130
Styrene	5.00	4.12	21	18	82		70 - 130
1,1,2,2-Tetrachloroethane	5.00	3.51	34	24	70		70 - 130
Tetrachloroethene	5.00	4.58	34	31	92		70 - 130
Tetrahydrofuran	5.00	4.29	15	13	86		70 - 130
Toluene	5.00	3.91	19	15	78		70 - 130
1,2,4-Trichlorobenzene	5.00	3.36	37	25	67		60 - 140
1,1,1-Trichloroethane	5.00	6.58	27	36	132	a	70 - 130
1,1,2-Trichloroethane	5.00	4.14	27	23	83		70 - 130
Trichloroethene	5.00	4.50	27	24	90		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.32	38	41	106		70 - 130
1,2,4-Trimethylbenzene	5.00	3.96	25	19	79		70 - 130
1,3,5-Trimethylbenzene	5.00	3.63	25	18	73		70 - 130
Vinyl chloride	5.00	5.31	13	14	106		70 - 130
o-Xylene	5.00	4.26	22	18	85		70 - 130
Methyl tert-butyl ether	5.00	4.50	18	16	90		60 - 140
m-Xylene & p-Xylene	10.0	8.77	43	38	88		70 - 130
Bromodichloromethane	5.00	5.17	34	35	103		70 - 130
1,2-Dibromoethane (EDB)	5.00	4.30	38	33	86		70 - 130
2-Butanone (MEK)	5.00	3.72	15	11	74		60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	4.17	20	17	83		60 - 140
Vinyl bromide	5.00	4.78	22	21	96		60 - 140
Bromoform	5.00	5.12	52	53	102		70 - 130
Bromomethane	5.00	5.58	19	22	112		70 - 130
1,3-Butadiene	5.00	5.11	11	11	102		60 - 140
4-Ethyltoluene	5.00	3.91	25	19	78		70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0J130000 - 056C **Work Order #** L8C1K1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	5.00	4.44	16	14	89	70 - 130
Carbon tetrachloride	5.00	6.16	31	39	123	70 - 130
Chlorobenzene	5.00	3.92	23	18	78	70 - 130
Dibromochloromethane	5.00	5.05	43	43	101	70 - 130
Chloroethane	5.00	4.38	13	12	88	70 - 130
Chloroform	5.00	5.42	24	26	108	70 - 130
Chloromethane	5.00	5.53	10	11	111	60 - 140
3-Chloropropene	5.00	4.90	16	15	98	70 - 130
2-Chlorotoluene	5.00	4.02	26	21	80	70 - 130
Cyclohexane	5.00	4.12	17	14	82	70 - 130
1,2-Dichlorobenzene	5.00	3.71	30	22	74	70 - 130
1,3-Dichlorobenzene	5.00	3.87	30	23	77	70 - 130
1,4-Dichlorobenzene	5.00	3.88	30	23	78	70 - 130
Dichlorodifluoromethane	5.00	6.44	25	32	129	60 - 140
1,1-Dichloroethane	5.00	5.06	20	20	101	70 - 130
1,2-Dichloroethane	5.00	5.81	20	23	116	70 - 130
1,1-Dichloroethene	5.00	4.70	20	19	94	70 - 130
cis-1,2-Dichloroethene	5.00	4.54	20	18	91	70 - 130
trans-1,2-Dichloroethene	5.00	4.73	20	19	95	70 - 130
1,2-Dichloropropane	5.00	3.76	23	17	75	70 - 130
cis-1,3-Dichloropropene	5.00	4.15	23	19	83	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	106	60 - 140

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

HOJ080569

☒ **Lawhon and Associates, Inc.**
☐ **L&A Engineering, Inc.**

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 7143

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7484
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other Air

Containers Intact: At L&A (Y/N), At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements		Analysis / Method: VOC / TO-15															Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C100410				10/4/10	1440	Cell Tower	1			X								-3.5			107			1137		6625
SU-G100410				10/4/10	1440	Campground	1			X																	12267
SU-S100410				10/4/10	1440	School	1			X																	62352
SU-W100410				10/4/10	1440	Wetland	1			X																	6588
SU-COS100410				10/4/10	1440	Co-Located School	1			X																	1137

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	10/7/10 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H0J080569

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip: Westerville, Ohio 43081
Phone: 614-818-5200
FAX: 614-818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Rick Jones

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
	10/4/10	10/4/10	10/5/10																
SU-C100410	10/4/10	15:00	15:00	-28.5	-3.0	K-142	6625	X											
SU-G100410	↓	↓	↓	-28.5	-4.5	K-172	12267	X											
SU-S100410	↓	↓	↓	-28.5	-0-	K-483	62352	X											
SU-W100410	↓	↓	↓	-28.5	-4.5	K-137	6588	X											
SU-COS100410	↓	↓	↓	-28.5	-3.5	K-107	1137	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

1 BOX RECEIVED AMBIENT
FEDEX#8708 8122 7484
CUSTODY SEAL INTACT
6 CANS, 6 FLOWS TS 10/8/10

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 10/7/10 1100	Received by: 10/8/10 10:00
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H0J080569

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
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)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 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 ☐ 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	
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? _____	
13. Are the shipping containers intact?	✓			☐ 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	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 82675 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 10/8/10

QA026R21.doc, 090409

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

Lot Number: *H0J080569*

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 InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
AB 10/11/10	NA	28.81	L768E	6625	-3.0	–												8852
			L768G	12267	-4.7	–												
			L768J	62352	-10.7	–												
			L768K	6588	-4.5	–												8853
			L768L	1137	-4.4	–												8852

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4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

October 19, 2010

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order:	PTJ0520
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	10/08/10
Final Report:	10/19/10 14:27

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 11.4°C and with chain of custody documentation.
HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made.
SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PTJ0520
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 10/08/10
Reported: 10/19/10 14:27

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C100410-01A	PTJ0520-01	10/04/10	DNPH Silica Gel Tube, 450 mg
C100410-02A	PTJ0520-02	10/04/10	DNPH Silica Gel Tube, 450 mg
C100410-03A	PTJ0520-03	10/04/10	DNPH Silica Gel Tube, 450 mg
G100410-01A	PTJ0520-04	10/04/10	DNPH Silica Gel Tube, 450 mg
G100410-02A	PTJ0520-05	10/04/10	DNPH Silica Gel Tube, 450 mg
G100410-03A	PTJ0520-06	10/04/10	DNPH Silica Gel Tube, 450 mg
S100410-01A	PTJ0520-07	10/04/10	DNPH Silica Gel Tube, 450 mg
S100410-02A	PTJ0520-08	10/04/10	DNPH Silica Gel Tube, 450 mg
S100410-03A	PTJ0520-09	10/04/10	DNPH Silica Gel Tube, 450 mg
W100410-01A	PTJ0520-10	10/04/10	DNPH Silica Gel Tube, 450 mg
W100410-02A	PTJ0520-11	10/04/10	DNPH Silica Gel Tube, 450 mg
W100410-03A	PTJ0520-12	10/04/10	DNPH Silica Gel Tube, 450 mg
100410A-A	PTJ0520-13	10/04/10	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

ANALYTICAL REPORT

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Aldehydes and Ketones by EPA TO-11A (Modified)								
Sample ID: PTJ0520-01 (C100410-01A)		**Tube**		**Sample Air Volume:197.76L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000152	<0.0000276	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.436	0.0022	0.00122	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.471	0.00238	0.001	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000152	<0.0000662	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0992	0.000502	0.000116	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.100	0.000506	0.000171	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000152	<0.0000529	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.827	0.00418	0.0034	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0825	0.000417	0.00034	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.745	0.00377	0.00307	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.129	0.000652	0.000159	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000152	<0.0000431	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0508	0.000257	0.0000523	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0440	0.000222	0.0000453	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0937	0.000474	0.000199	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000152	<0.0000309	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0596	0.000301	0.0000856	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.106	0.000536	0.000298	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.331	0.00167	0.000929	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-02 (C100410-02A)		**Tube**		**Sample Air Volume:165.6L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000181	<0.000033	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.430	0.0026	0.00144	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.322	0.00194	0.000819	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000181	<0.000079	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0582	0.000351	0.000081	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0684	0.000413	0.00014	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000181	<0.0000632	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.572	0.00345	0.00281	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.109	0.000658	0.000536	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.463	0.0028	0.00228	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.105	0.000634	0.000155	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000181	<0.0000514	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0306	0.000185	0.0000376	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000181	<0.0000369	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0610	0.000368	0.000155	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000181	<0.0000369	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0486	0.000293	0.0000833	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.166	0.001	0.000556	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.263	0.00159	0.000882	IH11	10/12/2010	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTJ0520-03 (C100410-03A)		**Tube**		**Sample Air Volume:206.4L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000145	<0.0000265	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.462	0.00224	0.00124	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.393	0.0019	0.000802	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000145	<0.0000634	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0626	0.000303	0.0000699	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0830	0.000402	0.000136	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000145	<0.0000507	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.591	0.00286	0.00233	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0861	0.000417	0.00034	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.504	0.00244	0.00199	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.111	0.000538	0.000131	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000145	<0.0000413	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000145	<0.0000296	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0320	0.000155	0.0000315	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0947	0.000459	0.000193	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000145	<0.0000296	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0361	0.000175	0.0000497	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.109	0.000528	0.000293	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.353	0.00171	0.000949	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-04 (G100410-01A)		**Tube**		**Sample Air Volume:200.64L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00015	<0.0000272	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.402	0.002	0.00111	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.408	0.00203	0.000856	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00015	<0.0000652	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.112	0.000558	0.000129	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0824	0.000411	0.000139	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00015	<0.0000522	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.14	0.00568	0.00463	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0805	0.000401	0.000327	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.06	0.00528	0.0043	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.196	0.000977	0.000238	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00015	<0.0000424	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0363	0.000181	0.0000368	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0490	0.000244	0.0000497	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0585	0.000292	0.000123	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00015	<0.0000304	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0570	0.000284	0.0000806	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.107	0.000533	0.000296	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.295	0.00147	0.000816	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-05 (G100410-02A)		**Tube**		**Sample Air Volume:146.4L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTJ0520-05 (G100410-02A) - cont.		**Tube**		**Sample Air Volume:146.4L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000205	<0.0000373	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.375	0.00256	0.00142	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.313	0.00214	0.0009	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000205	<0.0000894	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0806	0.000551	0.000127	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0564	0.000385	0.000131	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000205	<0.0000715	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.650	0.00444	0.00361	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0790	0.00054	0.000439	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.571	0.0039	0.00318	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0992	0.000678	0.000165	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000205	<0.0000582	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000205	<0.0000417	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000205	<0.0000417	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0668	0.000456	0.000192	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000205	<0.0000417	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0552	0.000377	0.000107	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.109	0.000745	0.000413	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.266	0.00182	0.00101	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-06 (G100410-03A)		**Tube**		**Sample Air Volume:189.6L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000158	<0.0000288	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.523	0.00276	0.00153	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.00158	<0.000666	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000158	<0.000069	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0991	0.000523	0.00012	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0628	0.000331	0.000112	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000158	<0.0000552	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.706	0.00372	0.00303	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0898	0.000474	0.000386	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.616	0.00325	0.00265	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.126	0.000665	0.000162	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000158	<0.0000449	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0357	0.000188	0.0000383	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000158	<0.0000322	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.124	0.000654	0.000275	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000158	<0.0000322	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0603	0.000318	0.0000903	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.117	0.000617	0.000343	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.406	0.00214	0.00119	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-07 (S100410-01A)		**Tube**		**Sample Air Volume:189.6L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTJ0520-07 (S100410-01A) - cont.		**Tube**		**Sample Air Volume:189.6L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000158	<0.0000288	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.317	0.00167	0.000928	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.504	0.00266	0.00112	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000158	<0.000069	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0473	0.000249	0.0000575	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.101	0.000533	0.000181	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000158	<0.0000552	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.639	0.00337	0.00274	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0729	0.000384	0.000313	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.567	0.00299	0.00243	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0944	0.000498	0.000122	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000158	<0.0000449	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000158	<0.0000322	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0300	0.000158	0.0000322	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0396	0.000209	0.0000879	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000158	<0.0000322	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0393	0.000207	0.0000588	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.115	0.000607	0.000337	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.201	0.00106	0.000588	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-08 (S100410-02A)		**Tube**		**Sample Air Volume:190.08L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000158	<0.0000288	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.319	0.00168	0.000932	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.321	0.00169	0.000711	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000158	<0.0000688	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0750	0.000395	0.0000909	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0622	0.000327	0.000111	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000158	<0.0000551	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.566	0.00298	0.00242	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0841	0.000442	0.00036	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.481	0.00253	0.00206	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0840	0.000442	0.000108	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000158	<0.0000448	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0340	0.000179	0.0000364	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000158	<0.0000321	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0364	0.000191	0.0000806	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000158	<0.0000321	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0336	0.000177	0.0000502	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.111	0.000584	0.000324	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.208	0.00109	0.000607	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-09 (S100410-03A)		**Tube**		**Sample Air Volume:205.92L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTJ0520-09 (S100410-03A) - cont.		**Tube**		**Sample Air Volume:205.92L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000146	<0.0000265	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.342	0.00166	0.000922	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.404	0.00196	0.000826	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000146	<0.0000635	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0913	0.000443	0.000102	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0565	0.000274	0.000093	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000146	<0.0000508	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.588	0.00286	0.00232	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0882	0.000428	0.000349	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.499	0.00242	0.00197	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.132	0.000641	0.000156	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000146	<0.0000414	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0357	0.000173	0.0000353	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000146	<0.0000296	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0405	0.000197	0.0000828	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000146	<0.0000296	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0436	0.000212	0.0000601	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.109	0.000529	0.000294	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.233	0.00113	0.000628	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-10 (W100410-01A)		**Tube**		**Sample Air Volume:138.72L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000216	<0.0000394	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.405	0.00292	0.00162	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetone	0.321	0.00231	0.000974	IH10, IH11	10/14/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000216	<0.0000943	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0847	0.000611	0.000141	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0590	0.000425	0.000144	IH10, IH11	10/14/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000216	<0.0000754	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.888	0.0064	0.00521	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0799	0.000576	0.000469	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.808	0.00582	0.00474	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.126	0.000908	0.000222	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000216	<0.0000614	IH10	10/14/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0382	0.000275	0.000056	IH10	10/14/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0309	0.000223	0.0000453	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0834	0.000601	0.000253	IH10	10/14/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000216	<0.000044	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0496	0.000358	0.000102	IH10	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.107	0.000771	0.000428	IH11	10/14/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.298	0.00215	0.00119	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-11 (W100410-02A)		**Tube**		**Sample Air Volume:175.2L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTJ0520-11 (W100410-02A) - cont.		**Tube**		**Sample Air Volume:175.2L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000171	<0.0000312	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.303	0.00173	0.00096	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Acetone	0.310	0.00177	0.000745	IH10, IH11	10/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000171	<0.0000747	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0610	0.000348	0.0000802	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0471	0.000269	0.0000912	IH10, IH11	10/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000171	<0.0000597	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.612	0.00349	0.00284	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0782	0.000446	0.000363	IH11	10/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.534	0.00305	0.00248	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.106	0.000605	0.000148	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000171	<0.0000486	IH10	10/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0305	0.000174	0.0000354	IH10	10/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000171	<0.0000348	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000171	<0.0000721	IH10	10/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000171	<0.0000348	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0607	0.000346	0.0000984	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.108	0.000616	0.000342	IH11	10/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.195	0.00111	0.000618	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-12 (W100410-03A)		**Tube**		**Sample Air Volume:153.60L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000195	<0.0000356	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.434	0.00283	0.00157	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Acetone	0.374	0.00243	0.00103	IH10, IH11	10/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000195	<0.0000852	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0493	0.000321	0.0000739	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0798	0.00052	0.000176	IH10, IH11	10/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000195	<0.0000681	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.602	0.00392	0.00319	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0743	0.000484	0.000394	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.528	0.00344	0.0028	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0747	0.000486	0.000119	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000195	<0.0000554	IH10	10/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000195	<0.0000397	IH10	10/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000195	<0.0000397	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.106	0.00069	0.000291	IH10	10/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000195	<0.0000397	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0402	0.000262	0.0000743	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0993	0.000646	0.000359	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.334	0.00217	0.00121	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTJ0520-13 (100410A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 10/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 10/11/10 13:38**	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PTJ0520-13 (100410A-A) - cont. | **Tube** | **Sample Air Volume:L** | **Sampled: 10/04/10** | **Prepared: 10/11/10 13:38**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.218	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Acetone	0.382	--	--	IH10, IH11	10/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10, IH11	10/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.243	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0698	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.173	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0993	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.119	--	--	IH11	10/12/2010	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10J0351-BLK1							
Formaldehyde	0.1756		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Formaldehyde - Back	0.07623		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acetaldehyde	0.1107		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acetaldehyde - Back	0.09898		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acrolein	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acrolein - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acetone	0.4172		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Acetone - Back	<0.300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Propionaldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Propionaldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Crotonaldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Butyraldehyde	0.04676		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Butyraldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Benzaldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Benzaldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Isovaleraldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Valeraldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Valeraldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
o-Tolualdehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
m-Tolualdehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
p-Tolualdehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Hexaldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
Hexaldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10J0351		10J0351-BLK1	10-11-2010

Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10J0351-DUP1									
Formaldehyde	0.7449	0.7564	IH11	ug, Total	1.54	10	10J0351	PTJ0520-01	10-12-2010
Acetaldehyde	0.3305	0.3370	IH11	ug, Total	1.94	10	10J0351	PTJ0520-01	10-12-2010
Acrolein	ND	0.03120	IH10	ug, Total	200	10	10J0351	PTJ0520-01	10-12-2010
Acetone	0.4711	0.4700	IH11	ug, Total	0.231	10	10J0351	PTJ0520-01	10-12-2010
Propionaldehyde	0.09375	0.08968	IH10	ug, Total	4.44	10	10J0351	PTJ0520-01	10-12-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-01	10-12-2010
Butyraldehyde	0.1000	0.09544	IH11	ug, Total	4.67	10	10J0351	PTJ0520-01	10-12-2010
Benzaldehyde	0.09924	0.09355	IH10	ug, Total	5.9	10	10J0351	PTJ0520-01	10-12-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-01	10-12-2010
Valeraldehyde	0.05955	0.05818	IH10	ug, Total	2.34	10	10J0351	PTJ0520-01	10-12-2010
o-Tolualdehyde	0.04396	0.04060	IH10	ug, Total	7.94	10	10J0351	PTJ0520-01	10-12-2010
m-Tolualdehyde	0.05077	0.04806	IH10	ug, Total	5.48	10	10J0351	PTJ0520-01	10-12-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-01	10-12-2010
Hexaldehyde	0.1294	0.1264	IH10	ug, Total	2.37	10	10J0351	PTJ0520-01	10-12-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-01	10-12-2010
10J0351-DUP2									
Formaldehyde	0.5339	0.5279	IH11	ug, Total	1.14	10	10J0351	PTJ0520-11	10-12-2010
Acetaldehyde	0.1946	0.1950	IH11	ug, Total	0.215	10	10J0351	PTJ0520-11	10-12-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010
Acetone	0.3102	0.3069	IH11	ug, Total	1.08	10	10J0351	PTJ0520-11	10-12-2010
Propionaldehyde	0.02992	0.03170	IH10	ug, Total	5.78	10	10J0351	PTJ0520-11	10-12-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010
Butyraldehyde	0.04709	0.04884	IH11	ug, Total	3.65	10	10J0351	PTJ0520-11	10-12-2010
Benzaldehyde	0.06104	0.06459	IH10	ug, Total	5.64	10	10J0351	PTJ0520-11	10-12-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010
Valeraldehyde	0.06073	0.05890	IH10	ug, Total	3.07	10	10J0351	PTJ0520-11	10-12-2010
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010
m-Tolualdehyde	0.03053	0.02880	IH10	ug, Total	5.85	10	10J0351	PTJ0520-11	10-12-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010
Hexaldehyde	0.1057	0.1085	IH10	ug, Total	2.58	10	10J0351	PTJ0520-11	10-12-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10J0351	PTJ0520-11	10-12-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10J0351-BS1								
Formaldehyde	0.45	0.5936	IH11	ug, Total	132%	22-134	10J0351	10-11-2010
Acetaldehyde	0.45	0.5523	IH11	ug, Total	123%	51-142	10J0351	10-11-2010
Acrolein	0.45	0.4302	IH10	ug, Total	96%	75-125	10J0351	10-11-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10J0351-BS1								
Acetone	0.45	0.8221	IH11, L1	ug, Total	183%	75-125	10J0351	10-11-2010
Propionaldehyde	0.45	0.4776	IH10	ug, Total	106%	67-145	10J0351	10-11-2010
Crotonaldehyde	0.45	0.4491	IH10	ug, Total	100%	66-146	10J0351	10-11-2010
Butyraldehyde	0.45	0.5148	IH11	ug, Total	114%	56-141	10J0351	10-11-2010
Benzaldehyde	0.45	0.4608	IH10	ug, Total	102%	57-142	10J0351	10-11-2010
Isovaleraldehyde	0.45	0.4563	IH10	ug, Total	101%	66-144	10J0351	10-11-2010
Valeraldehyde	0.45	0.4666	IH10	ug, Total	104%	66-144	10J0351	10-11-2010
o-Tolualdehyde	0.45	0.4807	IH10	ug, Total	107%	39-130	10J0351	10-11-2010
m-Tolualdehyde	0.45	0.4480	IH10	ug, Total	100%	73-143	10J0351	10-11-2010
p-Tolualdehyde	0.45	0.4191	IH10	ug, Total	93%	66-147	10J0351	10-11-2010
Hexaldehyde	0.45	0.4738	IH10	ug, Total	105%	65-145	10J0351	10-11-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4505	IH10	ug, Total	100%	75-144	10J0351	10-11-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10J0351-BSD1												
Formaldehyde		0.5916	IH11	ug, Total	0.45	131%	22-134	0.339	20	10J0351		10-11-2010
Acetaldehyde		0.5403	IH11	ug, Total	0.45	120%	51-142	2.21	20	10J0351		10-11-2010
Acrolein		0.4070	IH10	ug, Total	0.45	90%	75-125	5.55	20	10J0351		10-11-2010
Acetone		0.9603	IH11, L1	ug, Total	0.45	213%	75-125	15.5	20	10J0351		10-11-2010
Propionaldehyde		0.4839	IH10	ug, Total	0.45	108%	67-145	1.32	20	10J0351		10-11-2010
Crotonaldehyde		0.4314	IH10	ug, Total	0.45	96%	66-146	4.01	20	10J0351		10-11-2010
Butyraldehyde		0.5086	IH11	ug, Total	0.45	113%	56-141	1.22	20	10J0351		10-11-2010
Benzaldehyde		0.4456	IH10	ug, Total	0.45	99%	57-142	3.35	20	10J0351		10-11-2010
Isovaleraldehyde		0.4518	IH10	ug, Total	0.45	100%	66-144	0.986	20	10J0351		10-11-2010
Valeraldehyde		0.4655	IH10	ug, Total	0.45	103%	66-144	0.233	20	10J0351		10-11-2010
o-Tolualdehyde		0.4798	IH10	ug, Total	0.45	107%	39-130	0.195	20	10J0351		10-11-2010
m-Tolualdehyde		0.4434	IH10	ug, Total	0.45	99%	73-143	1.04	20	10J0351		10-11-2010
p-Tolualdehyde		0.4169	IH10	ug, Total	0.45	93%	66-147	0.533	20	10J0351		10-11-2010
Hexaldehyde		0.4626	IH10	ug, Total	0.45	103%	65-145	2.39	20	10J0351		10-11-2010
2,5-Dimethyl Benzaldehyde		0.4408	IH10	ug, Total	0.45	98%	75-144	2.18	20	10J0351		10-11-2010

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTJ0520 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 10/08/10 Reported: 10/19/10 14:27	

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

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DATA QUALIFIERS AND DEFINITIONS

IH10 Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.

IH11 Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.

ADDITIONAL COMMENTS

№ 7144

☒ **Lawhon and Associates, Inc.**
☐ **L&A Engineering, Inc.**

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Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8710 3253 1437
Page 1 of 1

CHAIN-OF-CUSTODY RECORD

PTJ0520

Project Contact: Shawn Ansbro

Sample Type
S-Soil SD-Sediment
SW-Surface Water WW-Wastewater
GW-Groundwater O-Other Air

Containers Intact:
At L&A Y/N
At Lab Y/N

As Received by Lab:

Project No: 07-0082
Project Name: Countywide
Sampler (print): Rick Jones
Signature:

Turn Around/Requirements
Analysis: Method To-11 (Airborne), To-11 (Refinery), To-11 (Carbonyl)
Number of Containers
Expected Conc. (H,M,L)
Hold
Remarks: Sample Flow Rate

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Airborne	Refinery	Carbonyl	Remarks: Sample Flow Rate
C100410-01A				10/4/10	480	Cell Tower	1	X	X	X	-01	0.412 l/min
C100410-02A				10/4/10	480	Cell Tower	1	X	X	X	-02	0.345 "
C100410-03A				10/4/10	480	Cell Tower	1	X	X	X	-03	0.431 "
G100410-01A				10/4/10	480	Campground	1	X	X	X	-04	0.418 l/min
G100410-02A				10/4/10	480	Campground	1	X	X	X	-05	0.305 "
G100410-03A				10/4/10	480	Campground	1	X	X	X	-06	0.395 "
											~~-07~~
S100410-01A				10/4/10	480	School	1	X	X	X	~~-08~~ -07	0.297 l/min
S100410-02A				10/4/10	480	School	1	X	X	X	~~-09~~ -08	0.396 "
S100410-03A				10/4/10	480	School	1	X	X	X	- -09	0.429 "
W100410-01A				10/4/10	480	Wetland	1	X	X	X	-10	0.289 l/min
W100410-02A				10/4/10	480	Wetland	1	X	X	X	-11	0.365 "
W100410-03A				10/4/10	480	Wetland	1	X	X	X	-12	0.320 "
100410A-A				10/4/10		Field Blank	1	X	X	X	-13	No Flow Field Blank

PF 10/8/10

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	10/7/10 2100						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
					10/8/10 1030		

Comments: 11.4°C Blue

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
4th Quarter Report – 2010

December 23, 2010

APPENDIX B. Laboratory Analytical Results from Event #169:
Wednesday, November 3, 2010 to Thursday, November 4, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H0K090442

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

November 12, 2010

ANALYTICAL METHODS SUMMARY

H0K090442

PARAMETER	ANALYTICAL METHOD
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

H0K090442

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L9QK9	001	SU-C110310	11/03/10	
L9QLA	002	SU-G110310	11/03/10	
L9QLC	003	SU-S110310	11/03/10	
L9QLD	004	SU-W110310	11/03/10	
L9QLG	005	SU-COG110310	11/03/10	

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
H0K090442

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

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

Sample Receipt

There were no problems with the condition of the samples received.

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 11/10/10 exhibited a % difference of > 30% for 1,2-dichlorotetrafluoroethane, 1,3-butadiene and vinyl chloride, the results were within the LCS acceptance limits.

Although vinyl chloride is flagged as being outside recovery limits in the laboratory control sample for batch 0314321, the laboratory control sample is in control. The standard operating procedure allows for 3 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.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 001 **Work Order #** L9QK91AA **Matrix.....:** AIR

Date Sampled...: 11/03/2010 **Date Received..:** 11/09/2010
Prep Date.....: 11/10/2010 **Analysis Date...** 11/10/2010
Prep Batch #.....: 0314321
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**2.2**	**5.0**	**5.1**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.14**	**0.50**	**0.56**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.31**	**0.50**	**1.1**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.18**	**0.50**	**0.83**	**J**	**2.3**
tert-Butyl alcohol	**0.057**	**2.0**	**0.17**	**J**	**6.1**
Methylene chloride	**0.42**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.29**	**0.20**	**0.92**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.47**	**0.20**	**1.8**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.084**	**0.20**	**0.65**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.60**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.072**	**0.20**	**0.31**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.20**	**0.20**	**0.85**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.30**	**1.0**	**0.88**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.084**	**0.20**	**0.53**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 001 **Work Order #** L9QK91AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.71**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.070**	**0.50**	**0.24**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.63**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 002 **Work Order #** L9QLA1AA **Matrix.....:** AIR

Date Sampled...: 11/03/2010 **Date Received..:** 11/09/2010
Prep Date.....: 11/10/2010 **Analysis Date...** 11/10/2010
Prep Batch #.....: 0314321
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.3**	**5.0**	**20**		**12**
Ethylbenzene	**0.069**	**0.20**	**0.30**	**J**	**0.87**
Trichlorofluoromethane	**0.29**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.18**	**0.50**	**0.73**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.38**	**0.50**	**1.3**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.072**	**0.50**	**0.34**	**J**	**2.3**
tert-Butyl alcohol	**0.16**	**2.0**	**0.49**	**J**	**6.1**
Methylene chloride	**0.56**	**0.50**	**1.9**	**B**	**1.7**
Benzene	**0.33**	**0.20**	**1.1**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.63**	**0.20**	**2.4**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.082**	**0.20**	**0.63**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.61**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.088**	**0.20**	**0.38**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.22**	**0.20**	**0.97**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.1**	**1.0**	**6.1**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.11**	**0.50**	**0.43**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.090**	**0.40**	**0.44**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.084**	**0.20**	**0.53**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 002 **Work Order #** L9QLA1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.72**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.077**	**0.50**	**0.27**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.62**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	107	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 003 **Work Order #** L9QLC1AA **Matrix.....:** AIR

Date Sampled...: 11/03/2010 **Date Received..:** 11/09/2010
Prep Date.....: 11/10/2010 **Analysis Date...** 11/10/2010
Prep Batch #.....: 0314321
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**3.2**	**5.0**	**7.7**	**J**	**12**
Ethylbenzene	**0.096**	**0.20**	**0.42**	**J**	**0.87**
Trichlorofluoromethane	**0.31**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.16**	**0.50**	**0.67**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.45**	**0.50**	**1.6**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.13**	**0.50**	**0.60**	**J**	**2.3**
tert-Butyl alcohol	**0.086**	**2.0**	**0.26**	**J**	**6.1**
Methylene chloride	**0.65**	**0.50**	**2.3**	**B**	**1.7**
Benzene	**0.43**	**0.20**	**1.4**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.73**	**0.20**	**2.8**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**0.20**	**0.64**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.33**	**0.20**	**1.6**		**0.98**
1,3,5-Trimethylbenzene	**0.078**	**0.20**	**0.38**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.14**	**0.20**	**0.62**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.35**	**0.20**	**1.5**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.47**	**1.0**	**1.4**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.12**	**0.40**	**0.59**	**J**	**2.0**
Carbon disulfide	**0.050**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.086**	**0.20**	**0.54**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 003 **Work Order #** L9QLC1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.72**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.11**	**0.50**	**0.37**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.65**	**0.20**	**3.2**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 004 **Work Order #** L9QLD1AA **Matrix.....:** AIR

Date Sampled...: 11/03/2010 **Date Received..:** 11/09/2010
Prep Date.....: 11/10/2010 **Analysis Date...** 11/11/2010
Prep Batch #.....: 0314321
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**4.2**	**5.0**	**9.9**	**J**	**12**
Ethylbenzene	**0.086**	**0.20**	**0.37**	**J**	**0.87**
Trichlorofluoromethane	**0.30**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.15**	**0.50**	**0.61**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.38**	**0.50**	**1.3**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.080**	**0.50**	**0.37**	**J**	**2.3**
tert-Butyl alcohol	**0.074**	**2.0**	**0.22**	**J**	**6.1**
Methylene chloride	**0.56**	**0.50**	**2.0**	**B**	**1.7**
Benzene	**0.32**	**0.20**	**1.0**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.69**	**0.20**	**2.6**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.083**	**0.20**	**0.64**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.24**	**0.20**	**1.2**		**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.11**	**0.20**	**0.47**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.30**	**0.20**	**1.3**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.60**	**1.0**	**1.8**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.049**	**0.50**	**0.20**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.097**	**0.40**	**0.48**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.085**	**0.20**	**0.53**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 004 **Work Order #** L9QLD1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.64**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.096**	**0.50**	**0.33**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.62**	**0.20**	**3.1**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COG110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 005 **Work Order #** L9QLG1AA **Matrix.....:** AIR

Date Sampled...: 11/03/2010 **Date Received..:** 11/09/2010
Prep Date.....: 11/10/2010 **Analysis Date...** 11/11/2010
Prep Batch #.....: 0314321
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**2.4**	**5.0**	**5.6**	**J**	**12**
Ethylbenzene	**0.13**	**0.20**	**0.55**	**J**	**0.87**
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.16**	**0.50**	**0.65**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.35**	**0.50**	**1.2**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.065**	**0.50**	**0.31**	**J**	**2.3**
tert-Butyl alcohol	**0.042**	**2.0**	**0.13**	**J**	**6.1**
Methylene chloride	**0.41**	**0.50**	**1.4**	**J B**	**1.7**
Benzene	**0.31**	**0.20**	**0.99**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.51**	**0.20**	**1.9**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.087**	**0.20**	**0.66**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.48**	**0.20**	**2.3**		**0.98**
1,3,5-Trimethylbenzene	**0.14**	**0.20**	**0.69**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.33**	**0.20**	**1.4**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.94**	**0.20**	**4.1**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.30**	**1.0**	**0.89**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.15**	**0.40**	**0.76**	**J**	**2.0**
Carbon disulfide	**0.065**	**0.50**	**0.20**	**J**	**1.6**
Carbon tetrachloride	**0.089**	**0.20**	**0.56**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG110310

GC/MS Volatiles

Lot-Sample # H0K090442 - 005 **Work Order #** L9QLG1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.73**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.078**	**0.50**	**0.27**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.64**	**0.20**	**3.2**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0K100000 - 321B **Work Order #** L9TWJ1AA **Matrix.....:** AIR

	11/09/2010	**Date Received..:**	11/10/2010
Prep Date.....:	11/10/2010	**Analysis Date...**	11/10/2010
Prep Batch #.....:	0314321		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	ND	5.0	ND		12
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	ND	0.20	ND		1.1
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.053**	**0.50**	**0.18**	**J**	**1.7**
Benzene	ND	0.20	ND		0.64
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	ND	0.20	ND		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND		1.5
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0K100000 - 321B **Work Order #** L9TWJ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0K100000 - 321C **Work Order #** L9TWJ1AC **Matrix.....:** AIR

	11/09/2010	**Date Received..:**	11/10/2010
Prep Date.....:	11/10/2010	**Analysis Date...**	11/10/2010
Prep Batch #.....:	0314321		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
trans-1,3-Dichloropropene	5.00	5.10	23	23	102		70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	6.90	35	48	138		60 - 140
Acetone	5.00	5.02	12	12	100		60 - 140
Ethylbenzene	5.00	4.82	22	21	96		70 - 130
Trichlorofluoromethane	5.00	5.57	28	31	111		60 - 140
n-Heptane	5.00	4.82	20	20	96		70 - 130
Hexachlorobutadiene	5.00	4.05	53	43	81		60 - 140
n-Hexane	5.00	5.56	18	20	111		70 - 130
2,2,4-Trimethylpentane	5.00	5.04	23	24	101		70 - 130
tert-Butyl alcohol	5.00	5.06	15	15	101		60 - 140
Methylene chloride	5.00	5.39	17	19	108		70 - 130
Benzene	5.00	4.86	16	16	97		70 - 130
Styrene	5.00	4.65	21	20	93		70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.90	34	34	98		70 - 130
Tetrachloroethene	5.00	4.26	34	29	85		70 - 130
Tetrahydrofuran	5.00	5.26	15	16	105		70 - 130
Toluene	5.00	4.46	19	17	89		70 - 130
1,2,4-Trichlorobenzene	5.00	3.66	37	27	73		60 - 140
1,1,1-Trichloroethane	5.00	5.73	27	31	115		70 - 130
1,1,2-Trichloroethane	5.00	4.74	27	26	95		70 - 130
Trichloroethene	5.00	4.77	27	26	95		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.66	38	43	113		70 - 130
1,2,4-Trimethylbenzene	5.00	4.58	25	23	92		70 - 130
1,3,5-Trimethylbenzene	5.00	4.34	25	21	87		70 - 130
Vinyl chloride	5.00	6.55	13	17	131	a	70 - 130
o-Xylene	5.00	4.84	22	21	97		70 - 130
Methyl tert-butyl ether	5.00	5.17	18	19	103		60 - 140
m-Xylene & p-Xylene	10.0	9.87	43	43	99		70 - 130
Bromodichloromethane	5.00	5.30	34	35	106		70 - 130
1,2-Dibromoethane (EDB)	5.00	4.61	38	35	92		70 - 130
2-Butanone (MEK)	5.00	4.76	15	14	95		60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	4.56	20	19	91		60 - 140
Vinyl bromide	5.00	5.61	22	25	112		60 - 140
Bromoform	5.00	4.72	52	49	94		70 - 130
Bromomethane	5.00	6.30	19	24	126		70 - 130
1,3-Butadiene	5.00	6.69	11	15	134		60 - 140
4-Ethyltoluene	5.00	4.61	25	23	92		70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0K100000 - 321C **Work Order #** L9TWJ1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	5.00	6.08	16	19	122	70 - 130
Carbon tetrachloride	5.00	5.34	31	34	107	70 - 130
Chlorobenzene	5.00	4.30	23	20	86	70 - 130
Dibromochloromethane	5.00	4.81	43	41	96	70 - 130
Chloroethane	5.00	6.23	13	16	125	70 - 130
Chloroform	5.00	5.55	24	27	111	70 - 130
Chloromethane	5.00	6.28	10	13	126	60 - 140
3-Chloropropene	5.00	5.47	16	17	109	70 - 130
2-Chlorotoluene	5.00	4.56	26	24	91	70 - 130
Cyclohexane	5.00	5.37	17	18	107	70 - 130
1,2-Dichlorobenzene	5.00	4.33	30	26	87	70 - 130
1,3-Dichlorobenzene	5.00	4.34	30	26	87	70 - 130
1,4-Dichlorobenzene	5.00	4.40	30	26	88	70 - 130
Dichlorodifluoromethane	5.00	6.08	25	30	122	60 - 140
1,1-Dichloroethane	5.00	5.76	20	23	115	70 - 130
1,2-Dichloroethane	5.00	5.21	20	21	104	70 - 130
1,1-Dichloroethene	5.00	5.64	20	22	113	70 - 130
cis-1,2-Dichloroethene	5.00	5.48	20	22	110	70 - 130
trans-1,2-Dichloroethene	5.00	5.59	20	22	112	70 - 130
1,2-Dichloropropane	5.00	4.92	23	23	98	70 - 130
cis-1,3-Dichloropropene	5.00	5.25	23	24	105	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

☑ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~929~~ 175 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2113 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

HOK090442

№ 7146

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7500

Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SW-Surface Water, GW-Groundwater, SD-Sediment, WW-Wastewater, O-Other Air

Containers Intact: At L&A (Y/N), At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements		Analysis / Method														Expected Conc. (H,M,L)	Hold	Remarks:
										VOC / TO-15																
SU-C110310				11/3/10	1440	Cell Tower	1			X																Summa 04190
SU-G110310				11/3/10	1440	Campground	1			X																6647
SU-S110310				11/3/10	1440	School	1			X																12478
SU-W110310				11/3/10	1440	Wetland	1			X																7494
SU-CG110310				11/3/10	1440	Campground Colo	1			X																93187

1 BOX RECEIVED AMBIENT
FED EX # 8708 8122 7500
CUSTODY SEAL INTACT
6 CANS, 6 FLOWS TS 11/9/10

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	11/3/10 1600		11/9/10 9:45				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

H0K090442

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip Westerville, Ohio 43081
Phone: 614-818-5200
FAX: 614-818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By:

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C 11 03 10	11/3/10	1500	1500	-29.0	-4.5	K390	04190	X											
SU-G 11 03 10	↓	↓	↓	-29.0	-4.0	K134	6647	X											
SU-S 11 03 10				-29.0	-4.5	K455	12478	X											
SU-W 11 03 10				-29.0	-3.5	K472	7494	X											
SU-COG 11 03 10	↓	↓	↓	-29.0	-3.0	K484	93187	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

1 BOX RECEIVED AMBIENT
FED EX # 8708 8122 7500
CUSTODY SEAL INTACT
6 CANS, to FLOWS TS 11/9/10

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 11/8/10 1600	Received by: 11/9/10 9:45
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: 1-0K09D442

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	
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)			✓	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **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 ☐ **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	
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? _____	
13. Are the shipping containers intact?	✓			☐ **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	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 82675 PM Instructions: N/A

Sample Receiving Associate: [illegible] Date: 11/9/10

QA026R21.doc, 090409

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

Lot Number: *H0K090442*

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 InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 11-9-10	NA	28.99	L9QK9	04190	-4.8													8892
			L9QLA	6647	-4.1													
			L9QLC	12478	-4.8													
			L9QLD	7494	-4.2													
			L9QLG	93187	-3.8													

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

November 17, 2010

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order:	PTK0566
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	11/09/10
Final Report:	11/17/10 15:03

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 13.2°C and with chain of custody documentation.
HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made.
SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PTK0566
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 11/09/10
Reported: 11/17/10 15:03

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C110310-01A	PTK0566-01	11/03/10	DNPH Silica Gel Tube, 450 mg
C110310-02A	PTK0566-02	11/03/10	DNPH Silica Gel Tube, 450 mg
C110310-03A	PTK0566-03	11/03/10	DNPH Silica Gel Tube, 450 mg
G110310-01A	PTK0566-04	11/03/10	DNPH Silica Gel Tube, 450 mg
G110310-02A	PTK0566-05	11/03/10	DNPH Silica Gel Tube, 450 mg
G110310-03A	PTK0566-06	11/03/10	DNPH Silica Gel Tube, 450 mg
S110310-01A	PTK0566-07	11/03/10	DNPH Silica Gel Tube, 450 mg
S110310-02A	PTK0566-08	11/03/10	DNPH Silica Gel Tube, 450 mg
S110310-03A	PTK0566-09	11/03/10	DNPH Silica Gel Tube, 450 mg
W110310-01A	PTK0566-10	11/03/10	DNPH Silica Gel Tube, 450 mg
W110310-02A	PTK0566-11	11/03/10	DNPH Silica Gel Tube, 450 mg
W110310-03A	PTK0566-12	11/03/10	DNPH Silica Gel Tube, 450 mg
110310A-0A	PTK0566-13	11/03/10	DNPH Silica Gel Tube, 450 mg

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ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Sample ID: PTK0566-01 (C110310-01A) — **Tube** — **Sample Air Volume:188.64L** — **Sampled: 11/03/10** — **Prepared: 11/12/10 12:30**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000159	<0.000029	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.658	0.00349	0.00194	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	1.00	0.0053	0.00223	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000159	<0.0000694	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.113	0.000599	0.000138	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.166	0.00088	0.000298	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000159	<0.0000555	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.924	0.0049	0.00399	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0707	0.000375	0.000305	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.853	0.00452	0.00368	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.151	0.0008	0.000195	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.419	0.00222	0.000631	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0493	0.000261	0.0000532	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0578	0.000306	0.0000624	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.153	0.000811	0.000341	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000159	<0.0000324	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0510	0.00027	0.0000767	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.100	0.00053	0.000294	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.558	0.00296	0.00164	IH11	11/13/2010	zn	0.0300	EPA TO-11A

Sample ID: PTK0566-02 (C110310-02A) — **Tube** — **Sample Air Volume:161.76L** — **Sampled: 11/03/10** — **Prepared: 11/12/10 12:30**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	0.0370	0.000229	0.0000417	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.616	0.00381	0.00211	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.921	0.00569	0.0024	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000185	<0.0000809	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0799	0.000494	0.000114	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.170	0.00105	0.000356	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000185	<0.0000647	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.664	0.0041	0.00334	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0725	0.000448	0.000365	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.591	0.00365	0.00297	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0951	0.000588	0.000144	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0423	0.000261	0.0000742	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000185	<0.0000377	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0694	0.000429	0.0000873	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.120	0.000742	0.000312	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000185	<0.0000377	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000185	<0.0000526	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.101	0.000624	0.000347	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.515	0.00318	0.00177	IH11	11/13/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTK0566-03 (C110310-03A)		**Tube**		**Sample Air Volume:199.2L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	0.0351	0.000176	0.0000321	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.720	0.00361	0.00201	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.927	0.00465	0.00196	IH11, IH10	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000151	<0.0000657	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.100	0.000502	0.000116	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.181	0.000909	0.000308	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000151	<0.0000525	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.777	0.0039	0.00318	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0818	0.000411	0.000334	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.695	0.00349	0.00284	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.116	0.000582	0.000142	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000151	<0.0000428	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0400	0.000201	0.0000409	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0715	0.000359	0.000073	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.173	0.000868	0.000366	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000151	<0.0000306	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0350	0.000176	0.0000499	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.111	0.000557	0.000309	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.610	0.00306	0.0017	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-04 (G110310-01A)		**Tube**		**Sample Air Volume:179.52L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000167	<0.0000305	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.590	0.00329	0.00182	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.999	0.00556	0.00234	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000167	<0.0000729	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.103	0.000574	0.000132	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.151	0.000841	0.000285	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000167	<0.0000583	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.25	0.00696	0.00567	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0691	0.000385	0.000313	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.18	0.00657	0.00535	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.172	0.000958	0.000234	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.534	0.00297	0.000844	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0432	0.000241	0.000049	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0705	0.000393	0.0000799	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.117	0.000652	0.000274	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000167	<0.000034	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0417	0.000232	0.0000659	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.101	0.000563	0.000312	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.489	0.00272	0.00151	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-05 (G110310-02A)		**Tube**		**Sample Air Volume:130.08L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTK0566-05 (G110310-02A) - cont.		**Tube**		**Sample Air Volume:130.08L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000231	<0.000042	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.524	0.00403	0.00224	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.824	0.00633	0.00267	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000231	<0.000101	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0577	0.000444	0.000102	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.122	0.000938	0.000318	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000231	<0.0000805	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.659	0.00507	0.00412	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0632	0.000486	0.000396	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.596	0.00458	0.00373	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0875	0.000673	0.000164	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0435	0.000334	0.0000949	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000231	<0.0000469	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0587	0.000451	0.0000918	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.101	0.000776	0.000327	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000231	<0.0000469	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000231	<0.0000655	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.101	0.000776	0.000431	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.423	0.00325	0.0018	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-06 (G110310-03A)		**Tube**		**Sample Air Volume:179.52L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000167	<0.0000305	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.950	0.00529	0.00294	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.848	0.00472	0.00199	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000167	<0.0000729	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0753	0.000419	0.0000966	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.161	0.000897	0.000304	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000167	<0.0000583	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.748	0.00417	0.00339	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0730	0.000407	0.000331	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.675	0.00376	0.00306	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.107	0.000596	0.000145	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000167	<0.0000474	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0312	0.000174	0.0000354	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0506	0.000282	0.0000574	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.167	0.00093	0.000392	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000167	<0.000034	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0341	0.00019	0.0000539	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.104	0.000579	0.000322	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.846	0.00471	0.00262	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-07 (S110310-01A)		**Tube**		**Sample Air Volume:129.6L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTK0566-07 (S110310-01A) - cont.		**Tube**		**Sample Air Volume:129.6L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000231	<0.0000422	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.554	0.00427	0.00237	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.856	0.0066	0.00278	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000231	<0.000101	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0722	0.000557	0.000128	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.113	0.000872	0.000296	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000231	<0.0000807	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.794	0.00613	0.00499	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0702	0.000542	0.000441	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.723	0.00558	0.00454	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.105	0.00081	0.000198	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000231	<0.0000657	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000231	<0.0000471	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0607	0.000468	0.0000953	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0987	0.000762	0.000321	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0315	0.000243	0.0000495	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0414	0.000319	0.0000907	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.104	0.000802	0.000445	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.450	0.00347	0.00193	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-08 (S110310-02A)		**Tube**		**Sample Air Volume:176.16L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	0.0460	0.000261	0.0000476	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.737	0.00418	0.00232	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	1.07	0.00607	0.00256	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00017	<0.0000743	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0873	0.000496	0.000114	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.203	0.00115	0.000391	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00017	<0.0000594	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.706	0.00401	0.00326	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0758	0.00043	0.00035	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.630	0.00358	0.00291	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0796	0.000452	0.00011	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00017	<0.0000483	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.00017	<0.0000347	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0873	0.000496	0.000101	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.142	0.000806	0.000339	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0372	0.000211	0.000043	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.00017	<0.0000483	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.139	0.000789	0.000438	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.597	0.00339	0.00188	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-09 (S110310-03A)		**Tube**		**Sample Air Volume:188.16L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTK0566-09 (S110310-03A) - cont.		**Tube**		**Sample Air Volume:188.16L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000159	<0.0000291	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.636	0.00338	0.00188	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	1.01	0.00537	0.00226	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000159	<0.0000695	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0912	0.000485	0.000112	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.163	0.000866	0.000294	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000159	<0.0000556	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.724	0.00385	0.00313	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0741	0.000394	0.000321	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.650	0.00345	0.00281	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.131	0.000696	0.00017	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000159	<0.0000453	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000159	<0.0000324	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0734	0.00039	0.0000794	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.123	0.000654	0.000275	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0410	0.000218	0.0000443	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0379	0.000201	0.0000572	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.109	0.000579	0.000322	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.527	0.0028	0.00155	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-10 (W110310-01A)		**Tube**		**Sample Air Volume:112.32L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000267	<0.0000487	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.573	0.0051	0.00283	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.736	0.00655	0.00276	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000267	<0.000116	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0629	0.00056	0.000129	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.125	0.00111	0.000377	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000267	<0.0000932	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.850	0.00757	0.00616	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0727	0.000647	0.000527	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.777	0.00692	0.00563	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.117	0.00104	0.000254	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000267	<0.0000758	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000267	<0.0000544	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0372	0.000331	0.0000674	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.134	0.00119	0.000502	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.0376	0.000335	0.0000681	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0356	0.000317	0.00009	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.106	0.000944	0.000524	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.467	0.00416	0.00231	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-11 (W110310-02A)		**Tube**		**Sample Air Volume:148.8L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTK0566-11 (W110310-02A) - cont.		**Tube**		**Sample Air Volume:148.8L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	0.0316	0.000212	0.0000387	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.517	0.00347	0.00193	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.756	0.00508	0.00214	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000202	<0.0000879	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0316	0.000212	0.0000489	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0980	0.000659	0.000223	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000202	<0.0000703	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.576	0.00387	0.00315	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0722	0.000485	0.000395	IH10	11/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.504	0.00339	0.00276	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0702	0.000472	0.000115	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000202	<0.0000572	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000202	<0.000041	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0384	0.000258	0.0000525	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0949	0.000638	0.000268	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000202	<0.000041	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000202	<0.0000572	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.105	0.000706	0.000392	IH11	11/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.412	0.00277	0.00154	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-12 (W110310-03A)		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00024	<0.0000438	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.497	0.00398	0.00221	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.685	0.00549	0.00231	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00024	<0.000105	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0663	0.000531	0.000122	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.131	0.00105	0.000356	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00024	<0.0000839	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.548	0.00439	0.00358	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0668	0.000535	0.000436	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.481	0.00385	0.00314	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0729	0.000584	0.000143	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00024	<0.0000682	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.107	0.000857	0.000361	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.00024	<0.0000682	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.103	0.000825	0.000458	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.394	0.00316	0.00175	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTK0566-13 (110310A-0A)		**Tube**		**Sample Air Volume:L**			**Sampled: 11/03/10**	
							Prepared: 11/12/10 12:30	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PTK0566-13 (110310A-0A) - cont. | **Tube** | **Sample Air Volume:L** | **Sampled: 11/03/10** | **Prepared: 11/12/10 12:30**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.222	--	--	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.423	--	--	IH10, IH11	11/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.212	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0675	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.145	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.103	--	--	IH11	11/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.119	--	--	IH11	11/13/2010	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10K0517-BLK1							
Formaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Formaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acetaldehyde	0.1017		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acetaldehyde - Back	0.09170		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acrolein	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acrolein - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acetone	0.4510		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Acetone - Back	<0.300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Propionaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Propionaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Crotonaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Butyraldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Butyraldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Benzaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Benzaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Isovaleraldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Valeraldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Valeraldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
o-Tolualdehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
m-Tolualdehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
p-Tolualdehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Hexaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
Hexaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10K0517		10K0517-BLK1	11-12-2010

Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									

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Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10K0517-DUP1									
Formaldehyde	0.8531	0.8545	IH10	ug, Total	0.162	10	10K0517	PTK0566-01	11-13-2010
Acetaldehyde	0.5579	0.5558	IH11	ug, Total	0.379	10	10K0517	PTK0566-01	11-13-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-01	11-13-2010
Acetone	1.000	1.003	IH11	ug, Total	0.254	10	10K0517	PTK0566-01	11-13-2010
Propionaldehyde	0.1532	0.1527	IH10	ug, Total	0.303	10	10K0517	PTK0566-01	11-13-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-01	11-13-2010
Butyraldehyde	0.1656	0.1596	IH10	ug, Total	3.71	10	10K0517	PTK0566-01	11-13-2010
Benzaldehyde	0.1130	0.09742	IH10	ug, Total	14.8	10	10K0517	PTK0566-01	11-13-2010
Isovaleraldehyde	0.4189	0.4256	IH10	ug, Total	1.59	10	10K0517	PTK0566-01	11-13-2010
Valeraldehyde	0.05102	0.04747	IH10	ug, Total	7.21	10	10K0517	PTK0566-01	11-13-2010
o-Tolualdehyde	0.05776	0.06017	IH10	ug, Total	4.08	10	10K0517	PTK0566-01	11-13-2010
m-Tolualdehyde	0.04934	0.04828	IH10	ug, Total	2.17	10	10K0517	PTK0566-01	11-13-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-01	11-13-2010
Hexaldehyde	0.1511	0.1463	IH10	ug, Total	3.26	10	10K0517	PTK0566-01	11-13-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-01	11-13-2010
10K0517-DUP2									
Formaldehyde	0.5042	0.5026	IH10	ug, Total	0.319	10	10K0517	PTK0566-11	11-13-2010
Acetaldehyde	0.4122	0.4108	IH11	ug, Total	0.334	10	10K0517	PTK0566-11	11-13-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
Acetone	0.7557	0.7498	IH11	ug, Total	0.78	10	10K0517	PTK0566-11	11-13-2010
Propionaldehyde	0.09493	0.09252	IH10	ug, Total	2.58	10	10K0517	PTK0566-11	11-13-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
Butyraldehyde	0.09799	0.09679	IH10	ug, Total	1.23	10	10K0517	PTK0566-11	11-13-2010
Benzaldehyde	0.03157	0.03349	IH10	ug, Total	5.91	10	10K0517	PTK0566-11	11-13-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
Valeraldehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
o-Tolualdehyde	0.03845	0.03433	IH10	ug, Total	11.3	10	10K0517	PTK0566-11	11-13-2010
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10K0517	PTK0566-11	11-13-2010
Hexaldehyde	0.07024	0.07359	IH10	ug, Total	4.66	10	10K0517	PTK0566-11	11-13-2010
2,5-Dimethyl Benzaldehyde	0.03156	0.03833	IH10	ug, Total	19.4	10	10K0517	PTK0566-11	11-13-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10K0517-BS1								
Formaldehyde	0.45	0.5439	IH10	ug, Total	121%	22-134	10K0517	11-12-2010
Acetaldehyde	0.45	0.5323	IH11	ug, Total	118%	51-142	10K0517	11-12-2010
Acrolein	0.45	0.4343	IH10	ug, Total	97%	75-125	10K0517	11-12-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10K0517-BS1								
Acetone	0.45	0.7634	IH11, L1	ug, Total	170%	75-125	10K0517	11-12-2010
Propionaldehyde	0.45	0.4608	IH10	ug, Total	102%	67-145	10K0517	11-12-2010
Crotonaldehyde	0.45	0.4281	IH10	ug, Total	95%	66-146	10K0517	11-12-2010
Butyraldehyde	0.45	0.5276	IH10	ug, Total	117%	56-141	10K0517	11-12-2010
Benzaldehyde	0.45	0.4467	IH10	ug, Total	99%	57-142	10K0517	11-12-2010
Isovaleraldehyde	0.45	0.4485	IH10	ug, Total	100%	66-144	10K0517	11-12-2010
Valeraldehyde	0.45	0.4505	IH10	ug, Total	100%	66-144	10K0517	11-12-2010
o-Tolualdehyde	0.45	0.4725	IH10	ug, Total	105%	39-130	10K0517	11-12-2010
m-Tolualdehyde	0.45	0.4490	IH10	ug, Total	100%	73-143	10K0517	11-12-2010
p-Tolualdehyde	0.45	0.3983	IH10	ug, Total	89%	66-147	10K0517	11-12-2010
Hexaldehyde	0.45	0.4710	IH10	ug, Total	105%	65-145	10K0517	11-12-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4243	IH10	ug, Total	94%	75-144	10K0517	11-12-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10K0517-BSD1												
Formaldehyde		0.5389	IH10	ug, Total	0.45	120%	22-134	0.923	20	10K0517		11-12-2010
Acetaldehyde		0.5391	IH11	ug, Total	0.45	120%	51-142	1.27	20	10K0517		11-12-2010
Acrolein		0.4363	IH10	ug, Total	0.45	97%	75-125	0.467	20	10K0517		11-12-2010
Acetone		0.7557	IH11, L1	ug, Total	0.45	168%	75-125	1.01	20	10K0517		11-12-2010
Propionaldehyde		0.4597	IH10	ug, Total	0.45	102%	67-145	0.242	20	10K0517		11-12-2010
Crotonaldehyde		0.4308	IH10	ug, Total	0.45	96%	66-146	0.638	20	10K0517		11-12-2010
Butyraldehyde		0.5489	IH10	ug, Total	0.45	122%	56-141	3.96	20	10K0517		11-12-2010
Benzaldehyde		0.4475	IH10	ug, Total	0.45	99%	57-142	0.172	20	10K0517		11-12-2010
Isovaleraldehyde		0.4473	IH10	ug, Total	0.45	99%	66-144	0.276	20	10K0517		11-12-2010
Valeraldehyde		0.4507	IH10	ug, Total	0.45	100%	66-144	0.0364	20	10K0517		11-12-2010
o-Tolualdehyde		0.4740	IH10	ug, Total	0.45	105%	39-130	0.318	20	10K0517		11-12-2010
m-Tolualdehyde		0.4458	IH10	ug, Total	0.45	99%	73-143	0.714	20	10K0517		11-12-2010
p-Tolualdehyde		0.4040	IH10	ug, Total	0.45	90%	66-147	1.42	20	10K0517		11-12-2010
Hexaldehyde		0.4754	IH10	ug, Total	0.45	106%	65-145	0.929	20	10K0517		11-12-2010
2,5-Dimethyl Benzaldehyde		0.4342	IH10	ug, Total	0.45	97%	75-144	2.31	20	10K0517		11-12-2010

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

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DATA QUALIFIERS AND DEFINITIONS

IH10 Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.

IH11 Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).

L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2115 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 7145

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7510
Page 1 of 1

CHAIN-OF-CUSTODY RECORD

PTK 0566

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other AIR

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time	Sample Location	Number of Containers	Turn Around/Requirements	Analysis: Aldehyde (Method TO-11)	Ketone (TO-11)	Carbonyl (TO-11)	Expected Conc. (H,M,L)	Hold	Remarks: Flow Rate
C110310-01A				11/3/10	480	Cell Tower	1		X	X	X	-01		0.393 l/min
C110310-02A				↓	480	Cell Tower	1		X	X	X	-02		0.337 "
C110310-03A				↓	480	Cell Tower	1		X	X	X	-03		0.415 "
G110310-01A				11/3/10	480	Campground	1		X	X	X	-04		0.374 l/min
G110310-02A				↓	480	Campground	1		X	X	X	-05		0.271 "
G110310-03A				↓	480	Campground	1		X	X	X	-06		0.374 "
S110310-01A				11/3/10	480	School	1		X	X	X	-07		0.270 l/min
S110310-02A				↓	480	School	1		X	X	X	-08		0.367 "
S110310-03A				↓	480	School	1		X	X	X	-09		0.392 "
W110310-01A				11/3/10	480	Wetland	1		X	X	X	-10		0.234 l/min
W110310-02A				↓	480	Wetland	1		X	X	X	-11		0.310 "
W110310-03A				↓	480	Wetland	1		X	X	X	-12		0.260 "
110310A-A				11/3/10	—	Field Blank	1		X	X	X	-13		No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	11/8/10 1600			Fedex			
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
				[signature]	11/9/10 1030		

Comments: 13.2°C

Distributor: White - File; Yellow - Lab

C.S.

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
4th Quarter Report – 2010

December 23, 2010

APPENDIX C. Laboratory Analytical Results from Event #170:
Tuesday, December 7, 2010 to Wednesday, December 8, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A

TestAmerica
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TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H0L100479

Shawn Ansbro

Lawhon and Associates
975 Eastwind Drive
Suite 190
Westerville, OH 43081

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

December 15, 2010

ANALYTICAL METHODS SUMMARY

H0L100479

PARAMETER	ANALYTICAL METHOD
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

H0L100479

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MA6F7	001	SU-C120710	12/07/10	
MA6GA	002	SU-G120710	12/07/10	
MA6GE	003	SU-S120710	12/07/10	
MA6GH	004	SU-W120710	12/07/10	
MA6GL	005	SU-COW120710	12/07/10	

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
HOL100479

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

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

There were no problems with the condition of the samples received.

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. Calibration verification analyzed on 12/13/10 exhibited a % difference of > 30% for carbon tetrachloride.

Although carbon tetrachloride is flagged as being outside recovery limits in the laboratory control sample for batch 0347309, the laboratory control sample is in control. The standard operating procedure allows for 3 analyte 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.

Sample Data Summary

Lawhon & Associates, Inc.

Client Sample ID: SU-C120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 001 **Work Order #** MA6F71AA **Matrix.....:** AIR

Date Sampled...: 12/07/2010 **Date Received..:** 12/10/2010
Prep Date.....: 12/13/2010 **Analysis Date...** 12/14/2010
Prep Batch #.....: 0347309
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**1.9**	**5.0**	**4.4**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.092**	**0.50**	**0.33**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.10**	**2.0**	**0.31**	**J**	**6.1**
Methylene chloride	**0.22**	**0.50**	**0.78**	**J B**	**1.7**
Benzene	**0.20**	**0.20**	**0.64**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.095**	**0.20**	**0.36**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.077**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.23**	**1.0**	**0.69**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: SU-C120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 001 **Work Order #** MA6F71AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.059**	**0.20**	**0.37**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.76**	**0.50**	**1.6**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.57**	**0.20**	**2.8**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-G120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 002 **Work Order #** MA6GA1AA **Matrix.....:** AIR

Date Sampled...: 12/07/2010 **Date Received..:** 12/10/2010
Prep Date.....: 12/13/2010 **Analysis Date...** 12/14/2010
Prep Batch #.....: 0347309
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	ND	5.0	ND		12
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.39**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.22**	**0.50**	**0.76**	**J B**	**1.7**
Benzene	**0.23**	**0.20**	**0.74**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.12**	**0.20**	**0.45**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.075**	**0.20**	**0.58**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: SU-G120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 002 **Work Order #** MA6GA1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.12**	**0.20**	**0.74**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.66**	**0.50**	**1.4**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.59**	**0.20**	**2.9**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-S120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 003 **Work Order #** MA6GE1AA **Matrix.....:** AIR

Date Sampled...: 12/07/2010 **Date Received..:** 12/10/2010
Prep Date.....: 12/13/2010 **Analysis Date...** 12/14/2010
Prep Batch #.....: 0347309
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**2.5**	**5.0**	**5.8**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.39**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.42**	**2.0**	**1.3**	**J**	**6.1**
Methylene chloride	**0.23**	**0.50**	**0.79**	**J B**	**1.7**
Benzene	**0.20**	**0.20**	**0.65**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.15**	**0.20**	**0.55**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.070**	**0.20**	**0.54**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.11**	**0.20**	**0.52**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.28**	**1.0**	**0.82**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.087**	**0.20**	**0.55**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 003 **Work Order #** MA6GE1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	**0.71**	**0.50**	**1.5**	**1.0**
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	**0.59**	**0.20**	**2.9**	**0.99**
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-W120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 004 **Work Order #** MA6GH1AA **Matrix.....:** AIR

Date Sampled...: 12/07/2010 **Date Received..:** 12/10/2010
Prep Date.....: 12/13/2010 **Analysis Date...** 12/14/2010
Prep Batch #.....: 0347309
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**3.2**	**5.0**	**7.5**	**J**	**12**
Ethylbenzene	**0.086**	**0.20**	**0.37**	**J**	**0.87**
Trichlorofluoromethane	**0.24**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.19**	**0.50**	**0.77**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.16**	**0.50**	**0.56**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.13**	**0.50**	**0.62**	**J**	**2.3**
tert-Butyl alcohol	**0.16**	**2.0**	**0.48**	**J**	**6.1**
Methylene chloride	**0.45**	**0.50**	**1.6**	**J B**	**1.7**
Benzene	**0.30**	**0.20**	**0.96**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.24**	**0.20**	**1.6**		**1.4**
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.78**	**0.20**	**2.9**		**0.75**
1,2,4-Trichlorobenzene	**0.13**	**1.0**	**0.93**	**J**	**7.4**
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	**4.5**	**0.20**	**24**		**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.13**	**0.20**	**0.99**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.36**	**0.20**	**1.8**		**0.98**
1,3,5-Trimethylbenzene	**0.093**	**0.20**	**0.46**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.12**	**0.20**	**0.52**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.29**	**0.20**	**1.3**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.43**	**1.0**	**1.3**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.22**	**0.50**	**0.92**	**J**	**2.0**
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	**0.084**	**0.40**	**0.41**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.088**	**0.20**	**0.55**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 004 **Work Order #** MA6GH1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Chlorobenzene	**1.5**	**0.20**	**6.8**		**0.92**
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.71**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	**9.0**	**0.20**	**54**		**1.2**
1,3-Dichlorobenzene	**0.52**	**0.20**	**3.1**		**1.2**
1,4-Dichlorobenzene	**1.5**	**0.20**	**8.9**		**1.2**
Dichlorodifluoromethane	**0.56**	**0.20**	**2.8**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.094**	**0.20**	**0.38**	**J**	**0.81**
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	**0.28**	**0.20**	**1.1**		**0.79**
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	102	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: SU-COW120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 005 **Work Order #** MA6GL1AA **Matrix.....:** AIR

Date Sampled...: 12/07/2010 **Date Received..:** 12/10/2010
Prep Date.....: 12/13/2010 **Analysis Date...** 12/14/2010
Prep Batch #.....: 0347309
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**1.7**	**5.0**	**4.1**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.24**	**0.20**	**1.3**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.39**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.31**	**2.0**	**0.95**	**J**	**6.1**
Methylene chloride	**0.22**	**0.50**	**0.76**	**J B**	**1.7**
Benzene	**0.21**	**0.20**	**0.66**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.17**	**0.20**	**0.63**	**J**	**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.072**	**0.20**	**0.55**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.27**	**1.0**	**0.79**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: SU-COW120710

GC/MS Volatiles

Lot-Sample # H0L100479 - 005 **Work Order #** MA6GL1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.078**	**0.20**	**0.49**	**J**	**1.3**
Chlorobenzene	ND	0.20	ND		0.92
Dibromochloromethane	ND	0.20	ND		1.7
Chloroethane	ND	0.20	ND		0.53
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.58**	**0.50**	**1.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	ND	0.50	ND		1.7
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.54**	**0.20**	**2.6**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	60 - 140

Qualifiers

B	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
J	Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0L130000 - 309B **Work Order #** MA9L71AA **Matrix.....:** AIR

	12/09/2010	**Date Received..:**	12/10/2010
Prep Date.....:	12/13/2010	**Analysis Date...**	12/13/2010
Prep Batch #.....:	0347309		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	ND	5.0	ND		12
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	ND	0.20	ND		1.1
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	ND	0.50	ND		1.8
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	ND	2.0	ND		6.1
Methylene chloride	**0.061**	**0.50**	**0.21**	**J**	**1.7**
Benzene	ND	0.20	ND		0.64
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	ND	0.20	ND		1.4
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	ND	0.20	ND		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND		1.5
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	ND	1.0	ND		2.9
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0L130000 - 309B **Work Order #** MA9L71AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.20	ND	0.92
Dibromochloromethane	ND	0.20	ND	1.7
Chloroethane	ND	0.20	ND	0.53
Chloroform	ND	0.20	ND	0.98
Chloromethane	ND	0.50	ND	1.0
3-Chloropropene	ND	0.20	ND	0.63
2-Chlorotoluene	ND	0.40	ND	2.1
Cyclohexane	ND	0.50	ND	1.7
1,2-Dichlorobenzene	ND	0.20	ND	1.2
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,1-Dichloroethane	ND	0.20	ND	0.81
1,2-Dichloroethane	ND	0.20	ND	0.81
1,1-Dichloroethene	ND	0.20	ND	0.79
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
trans-1,2-Dichloroethene	ND	0.20	ND	0.79
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	105	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0L130000 - 309C **Work Order #** MA9L71AC **Matrix.....:** AIR

	12/09/2010	**Date Received..:**	12/10/2010
Prep Date.....:	12/13/2010	**Analysis Date...**	12/13/2010
Prep Batch #.....:	0347309		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	5.00	5.20	23	24	104	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.64	35	39	113	60 - 140
Acetone	5.00	3.82	12	9.1	76	60 - 140
Ethylbenzene	5.00	4.96	22	22	99	70 - 130
Trichlorofluoromethane	5.00	5.22	28	29	104	60 - 140
n-Heptane	5.00	4.83	20	20	97	70 - 130
Hexachlorobutadiene	5.00	4.34	53	46	87	60 - 140
n-Hexane	5.00	5.04	18	18	101	70 - 130
2,2,4-Trimethylpentane	5.00	5.12	23	24	102	70 - 130
tert-Butyl alcohol	5.00	4.63	15	14	93	60 - 140
Methylene chloride	5.00	4.95	17	17	99	70 - 130
Benzene	5.00	5.01	16	16	100	70 - 130
Styrene	5.00	5.14	21	22	103	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.20	34	36	104	70 - 130
Tetrachloroethene	5.00	4.91	34	33	98	70 - 130
Tetrahydrofuran	5.00	4.62	15	14	92	60 - 140
Toluene	5.00	4.77	19	18	95	70 - 130
1,2,4-Trichlorobenzene	5.00	4.61	37	34	92	60 - 140
1,1,1-Trichloroethane	5.00	5.34	27	29	107	70 - 130
1,1,2-Trichloroethane	5.00	5.09	27	28	102	70 - 130
Trichloroethene	5.00	4.91	27	26	98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.32	38	41	106	70 - 130
1,2,4-Trimethylbenzene	5.00	4.98	25	24	100	70 - 130
1,3,5-Trimethylbenzene	5.00	4.95	25	24	99	70 - 130
Vinyl chloride	5.00	5.32	13	14	106	70 - 130
o-Xylene	5.00	4.75	22	21	95	70 - 130
Methyl tert-butyl ether	5.00	4.76	18	17	95	60 - 140
m-Xylene & p-Xylene	10.0	9.81	43	43	98	70 - 130
Bromodichloromethane	5.00	5.25	34	35	105	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.05	38	39	101	70 - 130
2-Butanone (MEK)	5.00	4.34	15	13	87	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	4.86	20	20	97	60 - 140
Vinyl bromide	5.00	5.26	22	23	105	60 - 140
Bromoform	5.00	6.23	52	64	125	60 - 140
Bromomethane	5.00	5.39	19	21	108	70 - 130
1,3-Butadiene	5.00	5.16	11	11	103	60 - 140
4-Ethyltoluene	5.00	4.82	25	24	96	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0L130000 - 309C **Work Order #** MA9L71AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
Carbon disulfide	5.00	5.30	16	17	106		70 - 130
Carbon tetrachloride	5.00	6.99	31	44	140	a	70 - 130
Chlorobenzene	5.00	5.01	23	23	100		70 - 130
Dibromochloromethane	5.00	5.63	43	48	113		70 - 130
Chloroethane	5.00	5.19	13	14	104		70 - 130
Chloroform	5.00	5.17	24	25	103		70 - 130
Chloromethane	5.00	5.43	10	11	109		60 - 140
3-Chloropropene	5.00	5.79	16	18	116		60 - 140
2-Chlorotoluene	5.00	5.20	26	27	104		70 - 130
Cyclohexane	5.00	5.18	17	18	104		70 - 130
1,2-Dichlorobenzene	5.00	5.05	30	30	101		70 - 130
1,3-Dichlorobenzene	5.00	5.04	30	30	101		70 - 130
1,4-Dichlorobenzene	5.00	4.90	30	29	98		70 - 130
Dichlorodifluoromethane	5.00	5.35	25	26	107		60 - 140
1,1-Dichloroethane	5.00	5.27	20	21	105		70 - 130
1,2-Dichloroethane	5.00	5.11	20	21	102		70 - 130
1,1-Dichloroethene	5.00	5.28	20	21	106		70 - 130
cis-1,2-Dichloroethene	5.00	5.24	20	21	105		70 - 130
trans-1,2-Dichloroethene	5.00	5.28	20	21	106		70 - 130
1,2-Dichloropropane	5.00	4.81	23	22	96		70 - 130
cis-1,3-Dichloropropene	5.00	5.08	23	23	102		70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	108	60 - 140

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

HOL100479

№ 7147

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

~~929~~ 975 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2715 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7521
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

Sample Type
S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other Air

Containers Intact: At L&A Y/N; At Lab Y/N

As Received by Lab:

Project No: 07-0082
Project Name: Countywide
Sampler (print): Nick Iannaggi
Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis (Method) VOC TO-15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #'s
SU-C120710				12/7/10	1440	Cell Tower	1		X			12490
SU-G120710				↓	↓	Campground	1		X			6957
SU-S120710						School	1		X			1305N
SU-W120710						Wetland	1		X			7503
SU-COW120710						Co-located Wetland	1		X			12426

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
DKD 12-10-10
1 BOX FEDX#
8708 8122 7521

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	12/9/10 1600		12-10-10 10:30				
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Comments:

Distributor: White - File; Yellow - Lab

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

HDL100479

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information
Company: Lawhon & Associates, Inc.
Address: 975 Eastwind Dr., Suite 190
City/State/Zip Westerville, Ohio 43081
Phone: (614) 818-5200
FAX: (614) 818-5219
Project Name: Countywide
Site/location: Community
PO # 07-0082

Project Manager: Shawn Ansbro
Phone:
Site Contact:
TAL Contact: Jamie McKinney

Sampled By: Nick Iannaggi

2 of 2 COCs

Analysis Turnaround Time
Standard (Specify) X
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15 VOC	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C120710	12/7/10	12/7/10 15:00	12/8/10 15:00	-29.0	-2.5	K216	12490	X											
SU-G120710	↓	↓	↓	-29.0	-2.0	K259	6957	X											
SU-S120710	↓	↓	↓	-29.0	0	K279	1305N	X											
SU-W120710	↓	↓	↓	-29.0	-9.5	K479	7503	X											
SU-COW120710	↓	↓	↓	-29.0	-2.0	K310	12426	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time: 12/9/10 1600	Canisters Received by:
Samples Relinquished by:	Date/Time: 12/9/10 1600	Received by: 12-10-10 10:30
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: HDL100479

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	
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)			✓	☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **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 ☐ **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	
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? _____	
13. Are the shipping containers intact?	✓			☐ **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	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 82675 PM Instructions: NA

Sample Receiving Associate: [signature] Date: 12-10-10

QA026R21.doc, 090409

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

Lot Number: *H0L100479*

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 InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
12/10/10	N/A	29.11	MA6F7	12490	-3.2	—												8941
			MA6GA	6957	-2.3													
			MA6GE	1305N	-0.5													
			MA6GH	7503	-10.3	+0.7												
			MA6GL	12426	-2.3	—												

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

December 20, 2010

LABORATORY REPORT

Client:
Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Attn: Shawn Ansbro

Work Order:	PTL0726
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	12/10/10
Final Report:	12/20/10 09:21

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE:

SAMPLE RECEIPT: Samples were received intact, at 12.8°C and with chain of custody documentation.
HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS: No significant observations were made.
SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:

Denise Harrington

Denise Harrington
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PTL0726
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 12/10/10
Reported: 12/20/10 09:21

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C120710-01A	PTL0726-01	12/07/10	DNPH Silica Gel Tube, 450 mg
C120710-02A	PTL0726-02	12/07/10	DNPH Silica Gel Tube, 450 mg
C120710-03A	PTL0726-03	12/07/10	DNPH Silica Gel Tube, 450 mg
G120710-01A	PTL0726-04	12/07/10	DNPH Silica Gel Tube, 450 mg
G120710-02A	PTL0726-05	12/07/10	DNPH Silica Gel Tube, 450 mg
G120710-03A	PTL0726-06	12/07/10	DNPH Silica Gel Tube, 450 mg
S120710-01A	PTL0726-07	12/07/10	DNPH Silica Gel Tube, 450 mg
S120710-02A	PTL0726-08	12/07/10	DNPH Silica Gel Tube, 450 mg
S120710-03A	PTL0726-09	12/07/10	DNPH Silica Gel Tube, 450 mg
W120710-01A	PTL0726-10	12/07/10	DNPH Silica Gel Tube, 450 mg
W120710-02A	PTL0726-11	12/07/10	DNPH Silica Gel Tube, 450 mg
W120710-03A	PTL0726-12	12/07/10	DNPH Silica Gel Tube, 450 mg
120710A-0A	PTL0726-13	12/07/10	DNPH Silica Gel Tube, 450 mg

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTL0726 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 12/10/10 Reported: 12/20/10 09:21	

ANALYTICAL REPORT

Aldehydes and Ketones by EPA TO-11A (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-01 (C120710-01A)		**Tube**		**Sample Air Volume:211.2L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000142	<0.0000259	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.405	0.00192	0.00106	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.662	0.00313	0.00132	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000142	<0.0000619	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0369	0.000175	0.0000403	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000142	<0.0000482	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000142	<0.0000496	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.280	0.00133	0.00108	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0394	0.000187	0.000152	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.241	0.00114	0.000929	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0495	0.000234	0.0000572	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000142	<0.0000403	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000142	<0.0000289	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000142	<0.0000289	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0483	0.000229	0.0000963	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000142	<0.0000289	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000142	<0.0000403	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0980	0.000464	0.000258	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.307	0.00145	0.000807	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-02 (C120710-02A)		**Tube**		**Sample Air Volume:180.48L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000166	<0.0000303	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.304	0.00168	0.000935	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.625	0.00346	0.00146	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000166	<0.0000725	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0444	0.000246	0.0000567	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000166	<0.0000564	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000166	<0.000058	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.275	0.00152	0.00124	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0467	0.000259	0.000211	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.228	0.00126	0.00103	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0717	0.000397	0.000097	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000166	<0.0000472	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000166	<0.0000338	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000166	<0.0000338	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0483	0.000268	0.000113	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000166	<0.0000338	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000166	<0.0000472	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0921	0.00051	0.000283	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.212	0.00117	0.000652	IH11	12/16/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-03 (C120710-03A)		**Tube**		**Sample Air Volume:221.28L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000136	<0.0000247	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.452	0.00204	0.00113	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.754	0.00341	0.00143	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000136	<0.0000591	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0453	0.000205	0.0000472	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000136	<0.000046	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000136	<0.0000473	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.339	0.00153	0.00125	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0479	0.000216	0.000176	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.291	0.00132	0.00107	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0675	0.000305	0.0000745	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000136	<0.0000385	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000136	<0.0000276	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000136	<0.0000276	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0817	0.000369	0.000155	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000136	<0.0000276	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000136	<0.0000385	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.112	0.000506	0.000281	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.340	0.00154	0.000853	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-04 (G120710-01A)		**Tube**		**Sample Air Volume:198.24L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000151	<0.0000276	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.315	0.00159	0.000882	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.00151	<0.000637	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000151	<0.000066	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0517	0.000261	0.0000601	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000151	<0.0000513	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000151	<0.0000528	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.318	0.0016	0.00131	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0440	0.000222	0.000181	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.274	0.00138	0.00113	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0867	0.000437	0.000107	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0356	0.00018	0.000051	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000151	<0.0000308	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000151	<0.0000308	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0388	0.000196	0.0000824	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000151	<0.0000308	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000151	<0.000043	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0993	0.000501	0.000278	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.216	0.00109	0.000605	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde - Back (e)	0.0356	0.00018	0.000051	IH10	12/15/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde - Front	<0.0300	<0.000151	<0.000043	IH10	12/16/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-05 (G120710-02A)		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00024	<0.0000438	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.324	0.0026	0.00144	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.615	0.00493	0.00207	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00024	<0.000105	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0476	0.000381	0.0000879	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.00024	<0.0000815	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00024	<0.0000839	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.309	0.00248	0.00202	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0484	0.000388	0.000316	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.260	0.00208	0.0017	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0560	0.000449	0.00011	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00024	<0.0000682	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0458	0.000367	0.000154	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00024	<0.0000489	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.00024	<0.0000682	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.103	0.000825	0.000458	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.221	0.00177	0.000983	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-06 (G120710-03A)		**Tube**		**Sample Air Volume:183.84L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000163	<0.0000297	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.433	0.00236	0.00131	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.763	0.00415	0.00175	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000163	<0.0000712	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0396	0.000215	0.0000496	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000163	<0.0000553	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000163	<0.0000569	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.343	0.00187	0.00152	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0382	0.000208	0.000169	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.304	0.00165	0.00135	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0556	0.000302	0.0000738	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000163	<0.0000463	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000163	<0.0000332	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000163	<0.0000332	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0843	0.000459	0.000193	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000163	<0.0000332	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000163	<0.0000463	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.100	0.000544	0.000302	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.333	0.00181	0.00101	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-07 (S120710-01A)		**Tube**		**Sample Air Volume:139.68L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-07 (S120710-01A) - cont.		**Tube**		**Sample Air Volume:139.68L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000215	<0.0000391	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.214	0.00153	0.00085	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.587	0.0042	0.00177	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000215	<0.0000937	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000215	<0.0000495	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000215	<0.0000728	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000215	<0.0000749	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.137	0.000981	0.000799	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0331	0.000237	0.000193	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.104	0.000745	0.000606	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.000215	<0.0000524	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000215	<0.000061	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000215	<0.0000437	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000215	<0.0000437	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000215	<0.0000904	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000215	<0.0000437	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000215	<0.000061	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0978	0.0007	0.000389	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.116	0.00083	0.000461	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-08 (S120710-02A)		**Tube**		**Sample Air Volume:208.32L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000144	<0.0000262	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.210	0.00101	0.00056	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.666	0.0032	0.00135	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000144	<0.0000628	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000144	<0.0000332	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000144	<0.0000488	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000144	<0.0000502	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.168	0.000806	0.000657	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.000144	<0.0000352	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000144	<0.0000409	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000144	<0.0000606	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000144	<0.0000409	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0955	0.000458	0.000254	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.115	0.000552	0.000306	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-09 (S120710-03A)		**Tube**		**Sample Air Volume:208.32L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000144	<0.0000262	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.229	0.0011	0.00061	IH11	12/16/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-09 (S120710-03A) - cont.		**Tube**		**Sample Air Volume:208.32L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
Acetone	0.442	0.00212	0.000893	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000144	<0.0000628	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000144	<0.0000332	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000144	<0.0000488	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000144	<0.0000502	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.124	0.000595	0.000485	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0312	0.00015	0.000122	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0933	0.000448	0.000365	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.000144	<0.0000352	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000144	<0.0000409	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000144	<0.0000606	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000144	<0.0000409	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.110	0.000528	0.000293	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.119	0.000571	0.000317	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-10 (W120710-01A)		**Tube**		**Sample Air Volume:117.6L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000255	<0.0000465	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.340	0.00289	0.0016	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.543	0.00462	0.00194	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000255	<0.000111	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0334	0.000284	0.0000654	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0667	0.000567	0.000192	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000255	<0.000089	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.305	0.00259	0.00211	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0311	0.000264	0.000215	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.274	0.00233	0.0019	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0594	0.000505	0.000123	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000255	<0.0000724	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0574	0.000488	0.000205	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000255	<0.0000724	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0978	0.000832	0.000462	IH11	12/15/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.243	0.00207	0.00115	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-11 (W120710-02A)		**Tube**		**Sample Air Volume:145.92L**			**Sampled: 12/07/10**	
							Prepared: 12/15/10 14:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000206	<0.0000375	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.287	0.00197	0.00109	IH11	12/16/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTL0726-11 (W120710-02A) - cont.		**Tube**		**Sample Air Volume:145.92L**			**Sampled: 12/07/10** **Prepared: 12/15/10 14:05**	
Acetone	0.526	0.0036	0.00152	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000206	<0.0000897	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0576	0.000395	0.0000909	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000206	<0.0000697	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000206	<0.0000717	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.387	0.00265	0.00216	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0790	0.000541	0.000441	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.308	0.00211	0.00172	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0669	0.000458	0.000112	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000206	<0.0000584	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000206	<0.0000418	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000206	<0.0000418	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000206	<0.0000865	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000206	<0.0000418	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000206	<0.0000584	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.102	0.000699	0.000388	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.185	0.00127	0.000704	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-12 (W120710-03A)		**Tube**		**Sample Air Volume:127.2L**			**Sampled: 12/07/10** **Prepared: 12/15/10 14:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000236	<0.000043	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.382	0.003	0.00167	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetone	0.665	0.00523	0.0022	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000236	<0.000103	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0306	0.000241	0.0000554	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000236	<0.00008	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000236	<0.0000823	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.270	0.00212	0.00173	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0343	0.00027	0.00022	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.236	0.00186	0.00151	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0380	0.000299	0.0000729	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000236	<0.000067	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000236	<0.000048	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000236	<0.000048	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0691	0.000543	0.000229	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000236	<0.000048	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000236	<0.000067	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.101	0.000794	0.000441	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.281	0.00221	0.00123	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTL0726-13 (120710A-0A)		**Tube**		**Sample Air Volume:L**			**Sampled: 12/07/10** **Prepared: 12/15/10 14:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.219	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A

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Aldehydes and Ketones by EPA TO-11A (Modified) - cont.

Sample ID: PTL0726-13 (120710A-0A) - cont. | **Tube** | **Sample Air Volume:L** | **Sampled: 12/07/10** | **Prepared: 12/15/10 14:05**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Acetone	0.543	--	--	IH10, IH11	12/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.126	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0373	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0888	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0992	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.120	--	--	IH11	12/16/2010	zn	0.0300	EPA TO-11A

(e) = Analyte concentration > 10% of front result indicates possible breakthrough

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10L0545-BLK1							
Formaldehyde	0.06863		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Formaldehyde - Back	0.04065		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acetaldehyde	0.1071		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acetaldehyde - Back	0.09939		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acrolein	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acrolein - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acetone	0.4799		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Acetone - Back	<0.300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Propionaldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Propionaldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Crotonaldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Butyraldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Butyraldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Benzaldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Benzaldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Isovaleraldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Valeraldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Valeraldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
o-Tolualdehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
m-Tolualdehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
p-Tolualdehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Hexaldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
Hexaldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10L0545		10L0545-BLK1	12-15-2010

Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									

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Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10L0545-DUP1									
Formaldehyde	0.2406	0.2403	IH11	ug, Total	0.107	10	10L0545	PTL0726-01	12-16-2010
Acetaldehyde	0.3073	0.3055	IH11	ug, Total	0.591	10	10L0545	PTL0726-01	12-16-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
Acetone	0.6618	0.6616	IH11	ug, Total	0.0302	10	10L0545	PTL0726-01	12-16-2010
Propionaldehyde	0.04827	0.05054	IH10	ug, Total	4.6	10	10L0545	PTL0726-01	12-16-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
Benzaldehyde	0.03688	0.03894	IH10	ug, Total	5.43	10	10L0545	PTL0726-01	12-16-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
Valeraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
Hexaldehyde	0.04948	0.05652	IH10, R-2	ug, Total	13.3	10	10L0545	PTL0726-01	12-16-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-01	12-16-2010
10L0545-DUP2									
Formaldehyde	0.3082	0.3059	IH11	ug, Total	0.752	10	10L0545	PTL0726-11	12-16-2010
Acetaldehyde	0.1846	0.1858	IH11	ug, Total	0.622	10	10L0545	PTL0726-11	12-16-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Acetone	0.5260	0.5340	IH11	ug, Total	1.5	10	10L0545	PTL0726-11	12-16-2010
Propionaldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Benzaldehyde	0.05757	0.05552	IH10	ug, Total	3.63	10	10L0545	PTL0726-11	12-16-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Valeraldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010
Hexaldehyde	0.06686	0.06582	IH10	ug, Total	1.57	10	10L0545	PTL0726-11	12-16-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10L0545	PTL0726-11	12-16-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10L0545-BS1								
Formaldehyde	0.45	0.5282	IH11	ug, Total	117%	22-134	10L0545	12-15-2010
Acetaldehyde	0.45	0.5589	IH11	ug, Total	124%	51-142	10L0545	12-15-2010
Acrolein	0.45	0.3650	IH10	ug, Total	81%	75-125	10L0545	12-15-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10L0545-BS1								
Acetone	0.45	0.9992	IH11, L1	ug, Total	222%	75-125	10L0545	12-15-2010
Propionaldehyde	0.45	0.5078	IH10	ug, Total	113%	67-145	10L0545	12-15-2010
Crotonaldehyde	0.45	0.4119	IH10	ug, Total	92%	66-146	10L0545	12-15-2010
Butyraldehyde	0.45	0.4651	IH10	ug, Total	103%	56-141	10L0545	12-15-2010
Benzaldehyde	0.45	0.4718	IH10	ug, Total	105%	57-142	10L0545	12-15-2010
Isovaleraldehyde	0.45	0.4429	IH10	ug, Total	98%	66-144	10L0545	12-15-2010
Valeraldehyde	0.45	0.4627	IH10	ug, Total	103%	66-144	10L0545	12-15-2010
o-Tolualdehyde	0.45	0.4545	IH10	ug, Total	101%	39-130	10L0545	12-15-2010
m-Tolualdehyde	0.45	0.4306	IH10	ug, Total	96%	73-143	10L0545	12-15-2010
p-Tolualdehyde	0.45	0.4343	IH10	ug, Total	97%	66-147	10L0545	12-15-2010
Hexaldehyde	0.45	0.4589	IH10	ug, Total	102%	65-145	10L0545	12-15-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4511	IH10	ug, Total	100%	75-144	10L0545	12-15-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10L0545-BSD1												
Formaldehyde		0.5209	IH11	ug, Total	0.45	116%	22-134	1.38	20	10L0545		12-15-2010
Acetaldehyde		0.5441	IH11	ug, Total	0.45	121%	51-142	2.68	20	10L0545		12-15-2010
Acrolein		0.3668	IH10	ug, Total	0.45	82%	75-125	0.498	20	10L0545		12-15-2010
Acetone		0.9476	IH11, L1	ug, Total	0.45	211%	75-125	5.3	20	10L0545		12-15-2010
Propionaldehyde		0.4976	IH10	ug, Total	0.45	111%	67-145	2.03	20	10L0545		12-15-2010
Crotonaldehyde		0.4219	IH10	ug, Total	0.45	94%	66-146	2.39	20	10L0545		12-15-2010
Butyraldehyde		0.4522	IH10	ug, Total	0.45	100%	56-141	2.82	20	10L0545		12-15-2010
Benzaldehyde		0.4581	IH10	ug, Total	0.45	102%	57-142	2.94	20	10L0545		12-15-2010
Isovaleraldehyde		0.4371	IH10	ug, Total	0.45	97%	66-144	1.31	20	10L0545		12-15-2010
Valeraldehyde		0.4570	IH10	ug, Total	0.45	102%	66-144	1.24	20	10L0545		12-15-2010
o-Tolualdehyde		0.4496	IH10	ug, Total	0.45	100%	39-130	1.07	20	10L0545		12-15-2010
m-Tolualdehyde		0.4295	IH10	ug, Total	0.45	95%	73-143	0.265	20	10L0545		12-15-2010
p-Tolualdehyde		0.4253	IH10	ug, Total	0.45	95%	66-147	2.1	20	10L0545		12-15-2010
Hexaldehyde		0.4505	IH10	ug, Total	0.45	100%	65-145	1.84	20	10L0545		12-15-2010
2,5-Dimethyl Benzaldehyde		0.4425	IH10	ug, Total	0.45	98%	75-144	1.92	20	10L0545		12-15-2010

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CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Phoenix, 4625 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Phoenix (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1610, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2016, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7303, NIOSH 7600, NIOSH 7903, NIOSH 9100, NIOSH 9102, EPA IP-6A, EPA IP-6C, OSHA PV2120, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA ID-125G, OSHA IS-215, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Phoenix is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Phoenix also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
4625 East Cotton Center Blvd. Ste 189 Phoenix, AZ 85040 * (602) 437-3340 * Fax (602) 454-9303

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DATA QUALIFIERS AND DEFINITIONS

IH10	Target analyte was not detected in the method blank at or above the reporting limit. The QC samples and client sample(s) were not blank corrected.
IH11	Target analyte was detected in the method blank at or above the reporting limit. The background was not subtracted from the QC samples or the client's sample(s).
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
R-2	The RPD exceeded the acceptance limit.

ADDITIONAL COMMENTS

☒ Lawhon and Associates, Inc.
☐ L&A Engineering, Inc.

975 ~~929~~ Eastwind Drive, Suite 190 ~~211~~
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

~~2175 Freeman Avenue~~
~~Cleveland, OH 44113~~
~~Phone: (216) 737-0100~~
~~Fax: (216) 737-0109~~

№ 7149

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7532
Page 1 of 1

CHAIN-OF-CUSTODY RECORD

PTL0726

Project Contact: Shawn Ansbro

Sample Type: S-Soil, SD-Sediment, SW-Surface Water, WW-Wastewater, GW-Groundwater, O-Other Air

Containers Intact: At L&A Y/N, At Lab Y/N

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	Aldehyde	Ketone	Carbonyl	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
C120710-01A				12/7/10	480	Cell Tower	1				TO-11	TO-11	TO-11			0.440 l/min
C120710-02A				↓	480	Cell Tower	1				X	X	X			0.376 "
C120710-03A				↓	480	Cell Tower	1				X	X	X			0.461 "
G120710-01A				12/7/10	480	Campground	1				X	X	X			0.413 l/min
G120710-02A				↓	480	Campground	1				X	X	X			0.260 "
G120710-03A				↓	480	Campground	1				X	X	X			0.383 "
S120710-01A				12/7/10	480	School	1				X	X	X			0.291 l/min
S120710-02A				↓	480	School	1				X	X	X			0.403 "
S120710-03A				↓	480	School	1				X	X	X			0.434 "
W120710-01A				12/7/10	480	Wetland	1				X	X	X			0.245 l/min
W120710-02A				↓	480	Wetland	1				X	X	X			0.304 "
W120710-03A				↓	480	Wetland	1				X	X	X			0.265 "
120710A-A				12/7/10	—	Field Blank	1				X	X	X			No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	12/9/10 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
							12/10/10 10:00

Comments:

12.8° C.S.

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
4th Quarter Report – 2010

December 23, 2010

APPENDIX D. **Summary Table of VOC Results (Method TO-15m)**