Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 20, 2009

To Fulfill the Requirements Set Forth in Order 5.A. of the Ohio EPA Director's Findings and Orders Dated March 28, 2007

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Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

Monitoring Events #117 through #121

June 20, 2009

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Monitoring Events #117 through #121

1.0 INTRODUCTION

1.1 Current Activities

As described in Section 1.2 below, beginning on Monday May 21, 2007 ambient air sampling is being conducted every six days as mandated by Order 5.A. of the Ohio EPA Director's Findings and Orders dated March 28, 2007. This report covers the analytical results from the following Community Monitoring Events.

Event #117: Wednesday April 22 to Thursday April 23
Event #118: Tuesday April 28 to Wednesday April 29
Event #119: Monday May 4 to Tuesday May 5
Event #120: Sunday May 10 to Monday May 11
Event #121: Saturday May 16 to Sunday May 17

Previous Monthly Reports describe modifications that have been made to the sampling apparatus and sampling protocol to minimize/eliminate sources of variability. We previously indicated that the type of tubing used in the manifold to collect samples for aldehydes and for hydrogen fluoride and hydrogen chloride was switched from Tygon® to Teflon®. However, given the possibility that the Teflon® tubing may be a source of fluoride ion, all manifold tubing was replaced with Tygon®. No other significant modifications have been made to the system during the time period reflected in this Monthly Report.

1.2 Background

As specified by the Ohio EPA in Bryan Zima's March 28, 2007 letter to Jason Perdion of Baker & Hostetler, air samples were analyzed for the following groups of compounds:

- Volatile Organic Compounds (VOCs): EPA Method TO-15 modified with Tentatively Identified Compounds (TICs)
- Sulfur Compounds: EPA Method TO-15 modified
- Aldehydes and Ketones: EPA Method TO-11A
- Hydrogen Fluoride and Hydrogen Chloride: NIOSH Method 7903

VOCs were analyzed by TestAmerica Inc., 5815 Middlebrook Pike, Knoxville, TN 37921. The analyses for aldehydes (EPA Method TO-11A) and hydrogen fluoride/hydrogen chloride (NIOSH Method 7903) were performed by TestAmerica Inc.

Phoenix, 4625 E. Cotton Center Blvd, Suite 189, Phoenix, AZ 85040. Prior to April 2009, analyses for aldehydes and hydrogen fluoride/hydrogen chloride were performed by Integrated Analytical Laboratory (IAL), Randolph, NJ.

In order to identify conditions that may be of concern, results from the community monitoring are compared to conservative risk-based concentrations for compounds in air in non-occupational settings. The most conservative (lowest) comparison is the USEPA Region 9 Preliminary Remediation Goals (PRGs), followed by the Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). The differences between these screening levels are briefly discussed below.

The USEPA Region 9 PRG is the concentration of a compound in the ambient air that is estimated to be without significant risk to a person who would breathe that level of compound continuously over many decades. The Region 9 PRGs are derived using conservative mathematical formulas and do not represent the level of a compound in the air (or other environmental media) where health effects are likely to occur. Region 9 PRGs are generally accepted as conservative screening values, such that if the concentration of a compound in the air is less than the corresponding PRG, most public health officials and regulators are confident that there is no risk to human health. On the other hand, an analytical result that exceeds the corresponding PRG does not mean that there is an unacceptable risk to public health. The compounds that were detected in these Monitoring Events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived Region 9 PRG (0.25 ug/m^3) is lower than the average background concentration of 1.96 ug/m^3 in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). Consequently, finding certain compounds in ambient air at levels above PRGs that are very close to analytical detection limits is not uncommon and may simply reflect fluctuations in background sources. It should be noted that not all of the compounds found in the air samples have corresponding PRGs.

Analytical results for VOCs are also compared to the ATSDR Acute and Chronic Minimum Risk Levels (MRLs) where available. A MRL is an estimate of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse non-cancer health effects over a specified duration of exposure. PRGs and MRLs are useful screening levels that assist risk assessors in identifying those compounds that may pose a health concern. Neither PRGs nor MRLs represent levels of exposure that have been documented to cause actual health effects.

Compounds that were detected below PRGs or MRLs will not be discussed unless those particular results help to explain other findings.

Ambient environmental/climate conditions are discussed in Section 2.0. Results of the monitoring are discussed in Section 3.0 and summarized in Section 4.0 of this report. Analytical results from the laboratory are provided in the Appendices.

2.0 AMBIENT CONDITIONS

The descriptions of ambient conditions are taken from the Daily Odor Monitoring Summary compiled by Countywide's consultant, Diversified Engineering.

Event #117: Wednesday April 22 to Thursday April 23
April 22: Average temperature in degrees F: 44, Max. 54, Min. 37.
Winds were 7 mph with max gusts of 29 mph out of the W.
Average relative humidity 76% with 0.14 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.
April 23: Average temperature in degrees F: 48, Max. 61, Min. 35
Winds were 1 mph with a max speed of 8 mph out of the NW.
Average relative humidity 68% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #118: Tuesday April 28 to Wednesday April 29
April 28: Average temperature in degrees F: 65, Max. 80, Min. 50.
Winds were 6 mph with max gusts of 21 mph out of variable directions.
Average relative humidity 70% with 0.06 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.
April 29: Average temperature in degrees F: 56, Max. 63, Min. 48.
Winds were 4 mph with a max speed of 8 mph out of the E.
Average relative humidity 71% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #119: Monday May 4 to Tuesday May 5
May 4: Average temperature in degrees F: 61, Max. 69, Min. 54.
Winds were 5 mph with max gusts of 18 mph out of the NE/SE.
Average relative humidity 56% with no precipitation recorded.
Complaints: Complaints occurred at 11:29am from Gracemont Street; at 6:02pm from I-77 North between mile markers 96 and 97; and at 8:01pm from I-77 North between mile markers 96 and 97. Gas well driving was a potentially odor-causing activity noted on the Daily Odor Monitoring Summary.
May 5: Average temperature in degrees F: 57, Max. 68, Min. 50
Winds were 2 mph with max gusts of 16 mph out of ESE.
Average relative humidity 64% with no precipitation recorded.
Complaints: Complaints occurred at 7:57am from I-77 North and at 3:35 from 12102 Sherman Church Avenue in Bolivar. Gas well drilling was a potentially odor-causing activity noted on the Daily Odor Monitoring Summary.

Event #120: Sunday May 10 to Monday May 11
May 10: Average temperature in degrees F: 56, Max. 66, Min. 48.
Winds were 5 mph with max gusts of 22 mph out of the NW.
Average relative humidity 57% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

May 11: Average temperature in degrees F: 56, Max. 66, Min. 44.
Winds were 3 mph with max gusts of 21 mph out of variable directions.
Average relative humidity 63% with 0.08 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #121: Saturday May 16 to Sunday 17
May 16: Average temperature in degrees F: 67, Max. 78, Min. 55.
Winds were 4 mph with max gusts of 28 mph out of the W.
Average relative humidity 68% with 0.13 inches of precipitation recorded.
Complaints: Complaints occurred at 12.20pm from 3232 Downing Street in East Sparta and at 12:33pm from 2940 Haut Street in East Sparta. South toe drain repair and extension and gas extraction maintenance were potentially odor-causing activities noted on the Daily Odor Monitoring Summary
May 17: Average temperature in degrees F: 52, Max. 62, Min. 39.
Winds were 7 mph with max gusts of 21 mph out of the NE/N.
Average relative humidity 42% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

3.0 ANALYTICAL RESULTS

The laboratory analyzed the air samples for a large number of compounds. Only those results that exceeded Region 9 PRGs and/or ATSDR MRLs will be discussed in the body of this report (see Section 1.0). Other compounds may have been detected in a sample, but were quantified at concentrations below the respective PRG. Analytical results from the laboratory are provided in the Appendices.

The prevailing wind direction for each monitoring station relative to the landfill is designated as:

C: Crosswind
D: Downwind
U: Upwind
V: Variable

Wind direction is indicated for the first and second days of the regularly scheduled monitoring event separated by /.

3.1 Volatile Organic Compounds

Compounds detected by Method TO-15 modified (TO-15M) are summarized in Tables 1 through 5. TO-15M analyzes air samples collected in a summa canister for the presence of an extensive list of volatile organic compounds. In addition to a “standard analyte” list, we have requested that the laboratory tentatively identify and estimate the concentration of numerous compounds that are not on the “standard” list. These Tentatively Identified Compounds (TICs) include some compounds for which there are other specific analytical methods, such as acetaldehyde which is a target analyte for EPA Method TO-11A (TO-11A). All of the TO-15M analyses presented in this monthly report were performed by TestAmerica Inc., Knoxville, TN. Laboratory data reports are

provided in the Appendices. The QA/QC packages from Test America are not included in the Appendices because of their large size but can be made available upon request.

Only VOCs that were detected at concentrations exceeding the respective Region 9 PRG (most conservative screening level) in one or more samples during a monitoring event are presented in the summary tables that follow. The results from the analytical laboratory can be found in the Appendix noted.

Event #117 Wednesday April 22 to Thursday April 23

Analytical results are summarized in Table 1 and provided in Appendix A.

Table 1. Event #117: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Campground Co-located		Wetland
Prevailing wind direction					C/C	C/C	C/C		D/C
Benzene		29	10	**0.25**	**0.26J**	**0.56J**	**0.48J**	**0.49J**	**0.45J**
Carbon tetrachloride		188	188	**0.13**	**0.36J**	**0.41J**	**0.38J**	**0.41J**	**0.40J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers
J = Estimated concentration below laboratory reporting limit

Event #118: Tuesday April 28 to Wednesday April 29

Analytical results are summarized in Table 2 and provided in Appendix B.

Table 2. Event #118: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Camp ground	Wetland Co-located	
Prevailing wind direction					**V/C**	**V/C**	**V/C**	**V/U**	
Benzene		29	10	**0.25**	**0.52J**	**0.64**	**0.57J**	**0.51J**	**0.55J**
Carbon tetrachloride		188	188	**0.13**	**0.55J**	**0.60J**	**0.60J**	**0.59J**	**ND**

ND= Not detected
Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #119: Monday May 4 to Tuesday May 5

Analytical results are summarized in Table 3 and provided in Appendix C.

Table 3. Event #119: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower Co-located		Camp ground	Wetland
Prevailing wind direction					**D/C**	**D/C**		**U/C**	**U/U**
Benzene		29	10	**0.25**	**0.57J**	**0.43J**	**0.61J**	**0.43J**	**0.49J**
Carbon tetrachloride		188	188	**0.13**	**0.67J**	**0.64J**	**0.81J**	**0.67J**	**0.70J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #120: Sunday May 10 to Monday May 11

Analytical results are summarized in Table 4 and provided in Appendix D.

Table 4. Event #120: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School Co-located		Cell Tower	Camp ground	Wetland
Prevailing wind direction					C/V		C/V	C/V	**C/V**
Benzene		29	10	**0.25**	**0.92**	**0.91**	**0.55J**	**0.61J**	**0.58J**
Carbon tetrachloride		188	188	**0.13**	**0.67J**	**0.50J**	**0.67J**	**0.52J**	**0.50J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #121: Saturday May 16 to Sunday May 17

Analytical results are summarized in Table 5 and provided in Appendix E.

Table 5. Event #121: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Campground Co-located		Wetland
Prevailing wind direction					C/D	C/D	C/U		D/C
Benzene		29	10	**0.25**	**0.35J**	**0.43J**	**0.40J**	**0.51J**	**0.40J**
Carbon tetrachloride		188	188	**0.13**	**0.70J**	**0.58J**	**0.61J**	**0.64J**	**0.61J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

3.2 Sulfur Compounds

Carbon disulfide was the only sulfur compound detected during the five sampling events reviewed in this report for which Method TO-15M was performed. When detected, the concentrations of carbon disulfide were extremely low and well below the Region 9 PRG PRG. All detections are included on the TO-15M Summary Tables.

3.3 Aldehydes and Ketones

In order to obtain a continuous 24 hours of data, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently there are three separate sample results for each location for each monitoring event. Analyses for aldehydes and ketones by method TO-11A were conducted by TestAmerica Inc., Phoenix Arizona.

Although Method TO-11A analyzes for a number of carbonyl compounds, formaldehyde and acetaldehyde are most frequently detected and are the aldehyde compounds of greatest potential concern from a public health standpoint. In addition to formaldehyde and acetaldehyde, the following carbonyl compounds were occasionally detected in the samples summarized in this Monthly Report #25: acetone, benzaldehyde, propionaldehyde and butyraldehyde. The results for these compounds are included on the laboratory reporting sheets found in the Appendices. Only results for formaldehyde and acetaldehyde are summarized in the tables below.

Event #117 Wednesday April 22 to Thursday April 23

The laboratory report is in Appendix A.

Table 6. Event #117: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/C			C/C			C/C			D/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**5.2***	**1.9***	**4.0**	**3.5***	**3.0***	**3.9**	**4.5***	**4.3***	**7.0**	**4.5**	**2.0***	**5.4**
Acetaldehyde	NA	NA	**0.87**	**15.3**	**3.8**	**14.1**	**8.2**	**5.2**	**12.1**	**7.2**	**4.7***	**14.4**	**12.1**	**4.3**	**18.9**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #118: Tuesday April 28 to Wednesday April 29

The laboratory report is in Appendix B.

Table 7. Event #118: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				V/C			V/C			V/C			V/U		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**6.3**	**3.1***	**4.2**	**1.2***	**0.9***	**9.6***	**11.4**	**5.9**	**7.8**	**5.2**	**2.6***	**4.2**
Acetaldehyde	NA	NA	**0.87**	**15.4**	**5.0**	**13.5**	0.8*	**0.9***	**30.3**	**13.5**	**7.4**	**13.3**	**13.3**	**5.7**	**14.6**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #119: Monday May 4 to Tuesday May 5

The laboratory report is in Appendix C. Note that all analyses from this point forward were performed by Test America rather than Integrated Analytical Laboratories.

Table 8. Event #119: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				D/C			D/C			U/C			U/U		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**12.8**	**3.3***	**6.3**	**7.7**	**3.8***	**5.3**	**16.3**	**12.5**	**11.9**	**8.4**	**3.2***	**6.1**
Acetaldehyde	NA	NA	**0.87**	**34.5**	**6.8**	**21.1**	**21.4**	**8.1**	**20.2**	**30.4**	**19.7**	**28.3**	**29.3**	**7.9**	**25.7**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #120: Sunday May 10 to Monday May 11

The laboratory report is in Appendix D.

Table 9. Event #120: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/V			C/V			C/V			C/V		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**10.2**	**4.3**	**7.5**	**7.6**	**4.9***	**7.0**	**11.4**	**2.0***	**13.5**	**9.1**	**3.8**	**8.0**
Acetaldehyde	NA	NA	**0.87**	**60.4**	**15.9**	**27.8**	**26.3**	**13.8**	**23.0**	**37.6**	**9.5***	**31.1**	**35.1**	**12.9**	**27.5**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #121: Saturday May 16 to Sunday May 17

Analytical results are provided in Appendix E.

Table 10. Event #121: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/D			C/D			C/U			D/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**3.4**	**1.4***	**1.5***	**7.0**	**3.7***	**5.6**	**2.3***	**2.3***	**2.1***	**9.1**	**4.1***	**6.7**
Acetaldehyde	NA	NA	**0.87**	**1.3***	**1.0***	0.8*	**24.0**	**8.8**	**18.3**	**1.4***	**1.7***	**1.4***	**35.2**	**10.0**	**22.2**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

3.4 Hydrogen Chloride and Hydrogen Fluoride

As with the aldehyde and ketone samples, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently there are three separate sample results for each location for each monitoring event. The concentrations of HF and HCl in the air are quantified based on the mass of fluoride and chloride ion captured on the gel inside the tubes and the volume of air that was passed through the tube.

The majority of samples collected from mid-April through mid-May had no detectable amounts of either HF or HCl. Hydrochloric acid was only detected on two occasions (Event #117 and Event #119) and only once did the concentration of HCl exceed the Region 9 PRG as summarized in the tables below. The highly conservative Region 9 PRG for HCl (21 ug/m^3) is for constant exposure over many years. There is currently no Region 9 PRG for Hydrogen fluoride. On rare occasions, one or more sample results for HCl have exceeded the Region 9 PRG. These are sometimes attributable to moisture in the sorbent tube (as noted by the analytical laboratory) or may be chance random occurrences.

Table 11. Event #117 Wednesday April 22 to Thursday April 23:

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			C/C			C/C			C/C			D/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	**21**	ND	ND	ND	**33.1**	ND	ND	ND	ND	ND	ND	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 12. Event #119: Monday May 4 to Tuesday May 5:

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			D/C			D/C			U/C			U/U		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	**21**	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.0*****	ND	ND

1. ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

The laboratory analytical results for HF and HCl are included in Appendices A through E of this Report #25.

4.0 SUMMARY

4.1 Volatile Organic Compounds

Benzene and carbon tetrachloride were detected in all but one of the samples from the regularly scheduled every-six-day community monitoring events. No other VOCs were reported to be present at concentrations above their respective Region 9 PRGs.

All of the reported benzene concentrations were within the range of background levels reported in the literature and by other investigators. The highest benzene concentration detected from mid-April to mid-May was 0.91 ug/m^3; this concentration is approximately half of the average background concentration (1.96 ug/m^3) in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). As mentioned in previous Monthly Reports, there are numerous local and area sources of benzene and related compounds, including lawn mowing, emissions from the heavy equipment working on the nearby expansion area of the landfill, motor vehicles near the monitoring equipment, the Marathon refinery on the south side of Canton, and the landfill. The sources of carbon tetrachloride are not known, but the consistently low concentrations of this environmentally persistent compound across all monitoring locations indicate that like benzene, it is not related to the landfill.

Note: For the two compounds that were measured at concentrations (or estimated concentrations as designated by a "J" qualifier) above the Region 9 PRGs benzene and carbon tetrachloride, the PRG values (0.25 ug/m^3 and 0.13 ug/m^3, respectively) are below

the reporting limit (0.64 ug/m^3 and 1.3 ug/m^3, respectively) for the analytical laboratory. Consequently, any quantifiable detection of these compounds will exceed the highly conservative Region 9 PRG. The ATSDR MRLs provide a more realistic basis of comparison since all of the MRLs are above the range of laboratory reporting limits for those compounds that have MRLs. Neither benzene nor carbon tetrachloride concentrations in any sample exceeded the acute or chronic ATSDR MRL.

4.2 Aldehydes (Carbonyl Compounds)

Formaldehyde and acetaldehyde were detected at all community sampling locations. The Region 9 PRGs for formaldehyde and acetaldehyde (0.15 ug/m^3 and 0.87 ug/m^{3,} respectively) are very close to the laboratory reporting limits for these compounds. Consequently, almost any measurable levels of formaldehyde and acetaldehyde will exceed the respective Region 9 PRG. Therefore, the ATSDR Acute (50 ug/m^3) and Chronic (10 ug/m^3) MRLs are more relevant guidelines for interpreting the analytical results.

The ATSDR acute MRL for formaldehyde (50ug/m^3) was not exceeded in any sample covered in this report. The ATSDR chronic MRL (10ug/m^3) for formaldehyde was exceeded in one or more samples during event #118, #119 and #120. The 24 hour average was not exceeded during events #118 and #120, whereas the 24 hour average was slightly exceeded (13.6 ug/m^3) at the campground location during event #119. The campground location was either upwind or crosswind during sampling event #119, suggesting a source other than the landfill for the slightly elevated formaldehyde concentration. ATSDR MRL standards for acetaldehyde are not available.

As noted in previous reports, the first and third sorbent tubes tend to capture the highest concentrations of aldehydes. The first sorbent tube is programmed to turn on at 3:00 PM and run until 11:00 PM; the second tube samples air from 11:00 PM to 7:00 AM; and the third tube samples air form 7:00 AM to 3:00 PM. Thus, it is very likely that the first and third tubes are drawing air samples during the evening and morning rush hours, respectively. Again, this suggests that the density of motor vehicle traffic may help explain the observed increased levels of aldehydes in sorbent tubes #1 and #3.

4.3 Hydrogen Fluoride and Hydrogen Chloride

Hydrogen fluoride was not detected during community monitoring from mid-April to mid-May. Hydrogen chloride was detected during monitoring event #117 (33.1 ug/m^3 – cell tower) and event #119 (19.0 ug/m^3 - wetland). The higher HCL concentration observed during sampling event #119 was likely due to breakthrough from front to back of sorbent tube (see lab report Appendix D). The sample from event #117 exceeded the conservative Region 9 PRG (21.0 ug/m^3). The cell tower was cross-wind during this sampling event suggesting that a source other than the landfill is likely contributing to the elevated HCL level. Additionally, the average HCL level at the cell tower during event #117 was below the Region 9 PRG.

Note: It should be recognized that NIOSH Method 7903 for inorganic acids was designed for industrial-not ambient environmental applications. The methodology appears to be sensitive to changes in ambient conditions, particularly moisture. HF and HCl were either not present or were only detected at very low levels in the majority of samples that have been collected since the initiation of this monitoring program in May 2007. Even those results that appear to be outside of the "typical range" for this program are extremely low concentrations that do not present a risk to public health.

4.4 Laboratory Issues

No major laboratory issues have been identified as of the date of this report that would alter the conclusions based upon the monitoring results presented here. Results from the co-located (duplicate) TO-15 samples were similar for all locations and events.

4.6 Conclusions

No significant concentrations of any VOC, including benzene, have been reported in the months since alterations were made to the sampling apparatus. This is still the case for the monitoring events presented in this Monthly Report #25.

Our specific conclusions are summarized below:

- The levels of benzene recorded at the community monitoring locations during mid-April through mid-May were very low and well within Ohio background as reported by Ohio EPA (Portsmouth Ohio Air Quality Study, 2003).
- Because there are numerous local and regional sources of VOCs, it is expected that many of these compounds will continue to be detected at low levels as the community monitoring program moves forward.
- Concentrations of formaldehyde and acetaldehyde from mid-April through mid-May were similar to the previous month. Although the 24-hour average concentrations of formaldehyde slightly exceeded the ASTDR chronic MRL on one occasion, the average levels of formaldehyde recorded from all locations from mid-April through mid-May were below the chronic MRL.
- Sampling for hydrogen fluoride and hydrogen chloride should be eliminated.
- There are no clear trends with regard to the specific compounds or the concentrations of those compounds detected with respect to whether the monitoring location was upwind or downwind of the landfill during the monitoring event.
- The results presented in this Monthly Report #25 continue to support our conclusions that the occurrence of low levels of VOCs, aldehydes, and inorganic acids in the air of the community surrounding Countywide reflect local and regional sources; and that the levels of these compounds in the ambient air do not represent either an immediate or long-term threat to public health.

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 20, 2009

To Fulfill the Requirements Set Forth in Order 5.A. of the Ohio EPA Director's Findings and Orders Dated March 28, 2007

Republic Services of Ohio II, LLC
Countywide Recycling & Disposal Facility
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Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25
June 20, 2009
Monitoring Events #117 through #121

1.0 INTRODUCTION

1.1 Current Activities

As described in Section 1.2 below, beginning on Monday May 21, 2007 ambient air sampling is being conducted every six days as mandated by Order 5.A. of the Ohio EPA Director's Findings and Orders dated March 28, 2007. This report covers the analytical results from the following Community Monitoring Events.

Event #117: Wednesday April 22 to Thursday April 23
Event #118: Tuesday April 28 to Wednesday April 29
Event #119: Monday May 4 to Tuesday May 5
Event #120: Sunday May 10 to Monday May 11
Event #121: Saturday May 16 to Sunday May 17

The sampling and analysis has been conducted consistent with the Task Specific Quality Management Plan for the site, as updated to incorporate modifications that have been made to the sampling apparatus and sampling protocol to minimize/eliminate sources of variability. No significant modifications have been made to the system during the time period reflected in this Monthly Report.

1.2 Background

As specified by the Ohio EPA in Bryan Zima's March 28, 2007 letter to Jason Perdion of Baker & Hostetler, air samples were analyzed for the following groups of compounds:

- Volatile Organic Compounds (VOCs): EPA Method TO-15 modified with Tentatively Identified Compounds (TICs)
- Sulfur Compounds: EPA Method TO-15 modified
- Aldehydes and Ketones: EPA Method TO-11A
- Hydrogen Fluoride and Hydrogen Chloride: NIOSH Method 7903

VOCs were analyzed by TestAmerica Inc., 5815 Middlebrook Pike, Knoxville, TN 37921. The analyses for aldehydes (EPA Method TO-11A) and hydrogen fluoride/hydrogen chloride (NIOSH Method 7903) were performed by TestAmerica Inc. Phoenix, 4625 E. Cotton Center Blvd, Suite 189, Phoenix, AZ 85040. Prior to April 2009, analyses for aldehydes and hydrogen fluoride/hydrogen chloride were performed by Integrated Analytical Laboratory (IAL), Randolph, NJ.

In order to identify conditions that may be of concern, results from the community monitoring are compared to conservative risk-based concentrations for constituents in air in non-occupational settings. The most conservative (lowest) comparison is the USEPA Region 9 Preliminary Remediation Goals (PRGs), followed by the Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). The differences between these screening levels are briefly discussed below.

The USEPA Region 9 PRG is the concentration of a constituent in the ambient air that is estimated to be without significant risk to a person who would breathe that level of the constituent continuously over many decades. The Region 9 PRGs are derived using conservative mathematical formulas and do not represent the level of a constituent in the air (or other environmental media) where health effects are likely to occur. Region 9 PRGs are generally accepted as conservative screening values, such that if the concentration of a constituent in the air is less than the corresponding PRG, most public health officials and regulators are confident that there is no risk to human health. On the other hand, an analytical result that exceeds the corresponding PRG does not mean that there is an unacceptable risk to public health. The constituents that were detected in these Monitoring Events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived Region 9 PRG (0.25 ug/m^3) is lower than the average background concentration of 1.96 ug/m^3 in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). Consequently, finding certain constituents in ambient air at levels above PRGs that are very close to analytical detection limits is not uncommon and may simply reflect fluctuations in background sources. It should be noted that not all of the constituents found in the air samples have corresponding PRGs.

Analytical results for VOCs are also compared to the ATSDR Acute and Chronic Minimum Risk Levels (MRLs) where available. A MRL is an estimate of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse health effects over a specified duration of exposure. PRGs and MRLs are useful screening levels that assist risk assessors in identifying those constituents that may pose a health concern. Neither PRGs nor MRLs represent levels of exposure that have been documented to cause actual health effects.

The compounds that were detected below PRGs or MRLs will not be discussed unless those particular results help to explain other findings.

Ambient environmental/climate conditions are discussed in Section 2.0. Results of the monitoring are discussed in Section 3.0 and summarized in Section 4.0 of this report. Analytical results from the laboratory are provided in the Appendices.

2.0 AMBIENT CONDITIONS

The descriptions of ambient conditions are taken from the Daily Odor Monitoring Summary compiled by Countywide's consultant, Diversified Engineering.

Event #117: Wednesday April 22 to Thursday April 23
April 22: Average temperature in degrees F: 44, Max. 54, Min. 37.
Winds were 7 mph with max gusts of 29 mph out of the W.
Average relative humidity 76% with 0.14 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.
April 23: Average temperature in degrees F: 48, Max. 61, Min. 35
Winds were 1 mph with a max speed of 8 mph out of the NW.
Average relative humidity 68% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #118: Tuesday April 28 to Wednesday April 29
April 28: Average temperature in degrees F: 65, Max. 80, Min. 50.
Winds were 6 mph with max gusts of 21 mph out of variable directions.
Average relative humidity 70% with 0.06 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.
April 29: Average temperature in degrees F: 56, Max. 63, Min. 48.
Winds were 4 mph with a max speed of 8 mph out of the E.
Average relative humidity 71% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #119: Monday May 4 to Tuesday May 5
May 4: Average temperature in degrees F: 61, Max. 69, Min. 54.
Winds were 5 mph with max gusts of 18 mph out of the NE/SE.
Average relative humidity 56% with no precipitation recorded.
Complaints: Complaints occurred at 11:29am from Gracemont Street; at 6:02pm from I-77 North between mile markers 96 and 97; and at 8:01pm from I-77 North between mile markers 96 and 97. Gas well driving was a potentially odor-causing activity noted on the Daily Odor Monitoring Summary.
May 5: Average temperature in degrees F: 57, Max. 68, Min. 50
Winds were 2 mph with max gusts of 16 mph out of ESE.
Average relative humidity 64% with no precipitation recorded.
Complaints: Complaints occurred at 7:57am from I-77 North and at 3:35 from 12102 Sherman Church Avenue in Bolivar. Gas well drilling was a potentially odor-causing activity noted on the Daily Odor Monitoring Summary.

Event #120: Sunday May 10 to Monday May 11
May 10: Average temperature in degrees F: 56, Max. 66, Min. 48.
Winds were 5 mph with max gusts of 22 mph out of the NW.
Average relative humidity 57% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

May 11: Average temperature in degrees F: 56, Max. 66, Min. 44.
Winds were 3 mph with max gusts of 21 mph out of variable directions.
Average relative humidity 63% with 0.08 inches of precipitation recorded.
Complaints: There were no odor complaints during this time.

Event #121: Saturday May 16 to Sunday 17
May 16: Average temperature in degrees F: 67, Max. 78, Min. 55.
Winds were 4 mph with max gusts of 28 mph out of the W.
Average relative humidity 68% with 0.13 inches of precipitation recorded.
Complaints: Complaints occurred at 12.20pm from 3232 Downing Street in East Sparta and at 12:33pm from 2940 Haut Street in East Sparta. South toe drain repair and extension and gas extraction maintenance were potentially odor-causing activities noted on the Daily Odor Monitoring Summary
May 17: Average temperature in degrees F: 52, Max. 62, Min. 39.
Winds were 7 mph with max gusts of 21 mph out of the NE/N.
Average relative humidity 42% with no precipitation recorded.
Complaints: There were no odor complaints during this time.

3.0 ANALYTICAL RESULTS

The laboratory analyzed the air samples for a large number of compounds. Only those results that exceeded Region 9 PRGs and/or ATSDR MRLs will be discussed in the body of this report (see Section 1.0). Other compounds may have been detected in a sample, but were quantified at concentrations below the respective PRG. Analytical results from the laboratory are provided in the Appendices.

The prevailing wind direction for each monitoring station relative to the landfill is designated as:

C: Crosswind
D: Downwind
U: Upwind
V: Variable

Wind direction is indicated for the first and second days of the regularly scheduled monitoring event separated by /.

3.1 Volatile Organic Compounds

Compounds detected by Method TO-15 modified (TO-15M) are summarized in Tables 1 through 5. TO-15M analyzes air samples collected in a summa canister for the presence of an extensive list of volatile organic compounds. In addition to a "standard analyte" list, we have requested that the laboratory tentatively identify and estimate the concentration of numerous compounds that are not on the "standard" list. These Tentatively Identified Compounds (TICs) include some compounds for which there are other specific analytical methods, such as acetaldehyde which is a target analyte for EPA Method TO-11A (TO-11A). All of the TO-15M analyses presented in this monthly report were performed by TestAmerica Inc., Knoxville, TN. Laboratory data reports are

provided in the Appendices. The QA/QC packages from Test America are not included in the Appendices because of their large size but can be made available upon request.

Only VOCs that were detected at concentrations exceeding the respective Region 9 PRG (most conservative screening level) in one or more samples during a monitoring event are presented in the summary tables that follow. The results from the analytical laboratory can be found in the Appendix noted.

Event #117 Wednesday April 22 to Thursday April 23

Analytical results are summarized in Table 1 and provided in Appendix A.

Table 1. Event #117: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Campground Co-located		Wetland
Prevailing wind direction					C/C	C/C	C/C		D/C
Benzene		29	10	**0.25**	**0.26J**	**0.56J**	**0.48J**	**0.49J**	**0.45J**
Carbon tetrachloride		188	188	**0.13**	**0.36J**	**0.41J**	**0.38J**	**0.41J**	**0.40J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers
J = Estimated concentration below laboratory reporting limit

Event #118: Tuesday April 28 to Wednesday April 29

Analytical results are summarized in Table 2 and provided in Appendix B.

Table 2. Event #118: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Camp ground	Wetland Co-located	
Prevailing wind direction					**V/C**	**V/C**	**V/C**	**V/U**	
Benzene		29	10	**0.25**	**0.52J**	**0.64**	**0.57J**	**0.51J**	**0.55J**
Carbon tetrachloride		188	188	**0.13**	**0.55J**	**0.60J**	**0.60J**	**0.59J**	**ND**

ND= Not detected
Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #119: Monday May 4 to Tuesday May 5

Analytical results are summarized in Table 3 and provided in Appendix C.

Table 3. Event #119: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower Co-located		Camp ground	Wetland
Prevailing wind direction					**D/C**	**D/C**		**U/C**	**U/U**
Benzene		29	10	**0.25**	**0.57J**	**0.43J**	**0.61J**	**0.43J**	**0.49J**
Carbon tetrachloride		188	188	**0.13**	**0.67J**	**0.64J**	**0.81J**	**0.67J**	**0.70J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #120: Sunday May 10 to Monday May 11

Analytical results are summarized in Table 4 and provided in Appendix D.

Table 4. Event #120: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School Co-located		Cell Tower	Camp ground	Wetland
Prevailing wind direction					C/V		C/V	C/V	**C/V**
Benzene		29	10	**0.25**	**0.92**	**0.91**	**0.55J**	**0.61J**	**0.58J**
Carbon tetrachloride		188	188	**0.13**	**0.67J**	**0.50J**	**0.67J**	**0.52J**	**0.50J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

Event #121: Saturday May 16 to Sunday May 17

Analytical results are summarized in Table 5 and provided in Appendix E.

Table 5. Event #121: VOCs Detected Above PRGs
Concentrations in ug/m^3

Compound		Acute MRL	Chronic MRL	PRG	School	Cell Tower	Campground Co-located		Wetland
Prevailing wind direction					C/D	C/D	C/U		D/C
Benzene		29	10	**0.25**	**0.35J**	**0.43J**	**0.40J**	**0.51J**	**0.40J**
Carbon tetrachloride		188	188	**0.13**	**0.70J**	**0.58J**	**0.61J**	**0.64J**	**0.61J**

Bold indicates result exceeded Region 9 PRG
Shading indicates result exceeded ATSDR Minimum Risk Level (MRL)
Laboratory Data Qualifiers:
J = Estimated concentration below laboratory reporting limit

3.2 Sulfur Compounds

Carbon disulfide was the only sulfur compound detected during the five sampling events reviewed in this report for which Method TO-15M was performed. When detected, the concentrations of carbon disulfide were extremely low and well below the Region 9 PRG PRG. All detections are included on the TO-15M Summary Tables.

3.3 Aldehydes and Ketones

In order to obtain a continuous 24 hours of data, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently there are three separate sample results for each location for each monitoring event. Analyses for aldehydes and ketones by method TO-11A were conducted by TestAmerica Inc., Phoenix Arizona.

Although Method TO-11A analyzes for a number of carbonyl compounds, formaldehyde and acetaldehyde are most frequently detected and are the aldehyde compounds of greatest potential concern from a public health standpoint. In addition to formaldehyde and acetaldehyde, the following carbonyl compounds were occasionally detected in the samples summarized in this Monthly Report #25: acetone, benzaldehyde, propionaldehyde and butyraldehyde. The results for these compounds are included on the laboratory reporting sheets found in the Appendices. Only results for formaldehyde and acetaldehyde are summarized in the tables below.

Event #117 Wednesday April 22 to Thursday April 23

The laboratory report is in Appendix A.

Table 6. Event #117: Aldehydes Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/C			C/C			C/C			D/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**5.2***	**1.9***	**4.0**	**3.5***	**3.0***	**3.9**	**4.5***	**4.3***	**7.0**	**4.5**	**2.0***	**5.4**
Acetaldehyde	NA	NA	**0.87**	**15.3**	**3.8**	**14.1**	**8.2**	**5.2**	**12.1**	**7.2**	**4.7***	**14.4**	**12.1**	**4.3**	**18.9**

*Indicates possible break-through from front to back of sorbent tube.

1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3

Bold indicates concentration exceeded Region 9 PRG

Shading indicates concentration exceeded Chronic MRL

NA= Not available

Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #118: Tuesday April 28 to Wednesday April 29

The laboratory report is in Appendix B.

Table 7. Event #118: Aldehydes Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				V/C			V/C			V/C			V/U		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**6.3**	**3.1***	**4.2**	**1.2***	**0.9***	**9.6***	**11.4**	**5.9**	**7.8**	**5.2**	**2.6***	**4.2**
Acetaldehyde	NA	NA	**0.87**	**15.4**	**5.0**	**13.5**	0.8*	**0.9***	**30.3**	**13.5**	**7.4**	**13.3**	**13.3**	**5.7**	**14.6**

*Indicates possible break-through from front to back of sorbent tube.

1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3

Bold indicates concentration exceeded Region 9 PRG

Shading indicates concentration exceeded Chronic MRL

NA= Not available

Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #119: Monday May 4 to Tuesday May 5

The laboratory report is in Appendix C.

Table 8. Event #119: Aldehydes Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				D/C			D/C			U/C			U/U		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**12.8**	**3.3***	**6.3**	**7.7**	**3.8***	**5.3**	**16.3**	**12.5**	**11.9**	**8.4**	**3.2***	**6.1**
Acetaldehyde	NA	NA	**0.87**	**34.5**	**6.8**	**21.1**	**21.4**	**8.1**	**20.2**	**30.4**	**19.7**	**28.3**	**29.3**	**7.9**	**25.7**

*Indicates possible break-through from front to back of sorbent tube.

1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3

Bold indicates concentration exceeded Region 9 PRG

Shading indicates concentration exceeded Chronic MRL

NA= Not available

Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #120: Sunday May 10 to Monday May 11

The laboratory report is in Appendix D.

Table 9. Event #120: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/V			C/V			C/V			C/V		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**10.2**	**4.3**	**7.5**	**7.6**	**4.9***	**7.0**	**11.4**	**2.0***	**13.5**	**9.1**	**3.8**	**8.0**
Acetaldehyde	NA	NA	**0.87**	**60.4**	**15.9**	**27.8**	**26.3**	**13.8**	**23.0**	**37.6**	**9.5***	**31.1**	**35.1**	**12.9**	**27.5**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Event #121: Saturday May 16 to Sunday May 17

Analytical results are provided in Appendix E.

Table 10. Event #121: Aldehydes
Concentrations in ug/m^3

Aldehyde	Acute MRL[1]	Chronic MRL[1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction				C/D			C/D			C/U			D/C		
				1	2	3	1	2	3	1	2	3	1	2	3
Formaldehyde	50	10	**0.15**	**3.4**	**1.4***	**1.5***	**7.0**	**3.7***	**5.6**	**2.3***	**2.3***	**2.1***	**9.1**	**4.1***	**6.7**
Acetaldehyde	NA	NA	**0.87**	**1.3***	**1.0***	0.8*	**24.0**	**8.8**	**18.3**	**1.4***	**1.7***	**1.4***	**35.2**	**10.0**	**22.2**

*Indicates possible break-through from front to back of sorbent tube.
1. ATSDR Minimal Risk Levels (MRL) (ATSDR Toxicological Profile for Formaldehyde, July 1999) - Acute MRL 0.04 ppm = 50 ug/m^3; Chronic MRL 0.008 ppm=10 ug/m^3
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
NA= Not available
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

3.4 Hydrogen Chloride and Hydrogen Fluoride

As with the aldehyde and ketone samples, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8-hours each. Consequently there are three separate sample results for each location for each monitoring event. The concentrations of HF and HCl in the air are quantified based on the mass of fluoride and chloride ion captured on the gel inside the tubes and the volume of air that was passed through the tube.

The majority of samples collected from mid-April through mid-May had no detectable amounts of either HF or HCl. Hydrochloric acid was only detected on two occasions (Event #117 and Event #119) and only once did the concentration of HCl exceed the Region 9 PRG as summarized in the tables below. The highly conservative Region 9 PRG for HCl (21 ug/m^3) is for constant exposure over many years. There is currently no Region 9 PRG for Hydrogen fluoride. On rare occasions, one or more sample results for HCl have exceeded the Region 9 PRG. These are sometimes attributable to moisture in the sorbent tube (as noted by the analytical laboratory) or may be chance random occurrences.

Table 11. Event #117 Wednesday April 22 to Thursday April 23:

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			C/C			C/C			C/C			D/C		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	**21**	ND	ND	ND	**33.1**	ND	ND	ND	ND	ND	ND	ND	ND

1.ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
Shading indicates concentration exceeded Chronic MRL
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

Table 12. Event #119: Monday May 4 to Tuesday May 5:

Compound	ATSDR MRL [1]	PRG	School			Cell Tower			Campground			Wetland		
Prevailing wind direction			D/C			D/C			U/C			U/U		
			1	2	3	1	2	3	1	2	3	1	2	3
HF	17	**NA**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HCl	NA	**21**	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.0*****	ND	ND

1. ATSDR MRL – hydrogen fluoride = 2ppm = 17 ug/m^3 (Acute inhalation exposure)
Bold indicates concentration exceeded Region 9 PRG
*Indicates possible break-through from front to back of sorbent tube.
Note: As indicated previously, all tubing in the sampling apparatus manifolds is now Tygon®.

The laboratory analytical results for HF and HCl are included in Appendices A through E of this Report #25.

4.0 SUMMARY

4.1 Volatile Organic Compounds

Benzene and carbon tetrachloride were detected in all but one of the samples from the regularly scheduled every-six-day community monitoring events. No other VOCs were reported to be present at concentrations above their respective Region 9 PRGs.

All of the reported benzene concentrations were within the range of background levels reported in the literature and by other investigators. The highest benzene concentration detected from mid-April to mid-May was 0.91 ug/m^3; this concentration is approximately half of the average background concentration (1.96 ug/m^3) in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). As mentioned in previous Monthly Reports, there are numerous local and area sources of benzene and related compounds, including lawn mowing, emissions from the heavy equipment working on the nearby expansion area of the landfill, motor vehicles near the monitoring equipment, the Marathon refinery on the south side of Canton, and the landfill. The sources of carbon tetrachloride are not known, but the consistently low concentrations of this environmentally persistent compound across all monitoring locations indicate that like benzene, it is not related to the landfill.

Note: For the two compounds that were measured at concentrations (or estimated concentrations as designated by a "J" qualifier) above the Region 9 PRGs benzene and carbon tetrachloride, the PRG values (0.25 ug/m^3 and 0.13 ug/m^3, respectively) are below

the reporting limit (0.64 ug/m^3 and 1.3 ug/m^3, respectively) for the analytical laboratory. Consequently, any quantifiable detection of these compounds will exceed the highly conservative Region 9 PRG. The ATSDR MRLs provide a more realistic basis of comparison since all of the MRLs are above the range of laboratory reporting limits for those compounds that have MRLs. Neither benzene nor carbon tetrachloride concentrations in any sample exceeded the acute or chronic ATSDR MRL.

4.2 Aldehydes (Carbonyl Compounds)

Formaldehyde and acetaldehyde were detected at all community sampling locations. The Region 9 PRGs for formaldehyde and acetaldehyde (0.15 ug/m^3 and 0.87 ug/m^{3,} respectively) are very close to the laboratory reporting limits for these compounds. Consequently, almost any measurable levels of formaldehyde and acetaldehyde will exceed the respective Region 9 PRG. Therefore, the ATSDR Acute (50 ug/m^3) and Chronic (10 ug/m^3) MRLs are more relevant guidelines for interpreting the analytical results.

The ATSDR acute MRL for formaldehyde (50ug/m^3) was not exceeded in any sample covered in this report. The ATSDR chronic MRL (10ug/m^3) for formaldehyde was exceeded in one or more samples during event #118, #119 and #120. The 24 hour average was not exceeded during events #118 and #120, whereas the 24 hour average was slightly exceeded (13.6 ug/m^3) at the campground location during event #119. The campground location was either upwind or crosswind of the landfill during sampling event #119, suggesting a source other than the landfill for the slightly elevated formaldehyde concentration. ATSDR MRL standards for acetaldehyde are not available.

As noted in previous reports, the first and third sorbent tubes tend to capture the highest concentrations of aldehydes. The first sorbent tube is programmed to turn on at 3:00 PM and run until 11:00 PM; the second tube samples air from 11:00 PM to 7:00 AM; and the third tube samples air from 7:00 AM to 3:00 PM. Thus, it is very likely that the first and third tubes are drawing air samples during the evening and morning rush hours, respectively. Again, this suggests that the density of motor vehicle traffic may help explain the observed increased levels of aldehydes in sorbent tubes #1 and #3.

4.3 Hydrogen Fluoride and Hydrogen Chloride

Hydrogen fluoride was not detected during community monitoring from mid-April to mid-May. Hydrogen chloride was detected during monitoring event #117 (33.1 ug/m^3 – cell tower) and event #119 (19.0 ug/m^3 - wetland). The higher HCL concentration observed during sampling event #119 was likely due to breakthrough from front to back of sorbent tube (see lab report Appendix D). The sample from event #117 exceeded the conservative Region 9 PRG (21.0 ug/m^3). The cell tower was cross-wind during this sampling event suggesting that a source other than the landfill is likely contributing to the elevated HCL level. Additionally, the average HCL level at the cell tower during event #117 was below the Region 9 PRG.

Note: It should be recognized that NIOSH Method 7903 for inorganic acids was designed for industrial-not ambient environmental applications. The methodology appears to be sensitive to changes in ambient conditions, particularly moisture. HF and HCl were either not present or were only detected at very low levels in the majority of samples that have been collected since the initiation of this monitoring program in May 2007. Even those results that appear to be outside of the "typical range" for this program are extremely low concentrations that do not present a risk to public health.

4.4 Laboratory Issues

No major laboratory issues have been identified as of the date of this report that would alter the conclusions based upon the monitoring results presented here. Results from the co-located (duplicate) TO-15 samples were similar for all locations and events.

4.6 Conclusions

No significant concentrations of any VOC, including benzene, have been reported in the months since alterations were made to the sampling apparatus. This is still the case for the monitoring events presented in this Monthly Report #25.

Our specific conclusions are summarized below:

- The levels of benzene recorded at the community monitoring locations during mid-April through mid-May were very low and well within Ohio background as reported by Ohio EPA (Portsmouth Ohio Air Quality Study, 2003).
- Because there are numerous local and regional sources of VOCs, it is expected that many of these compounds will continue to be detected at low levels as the community monitoring program moves forward.
- Concentrations of formaldehyde and acetaldehyde from mid-April through mid-May were similar to the previous month. Although the 24-hour average concentrations of formaldehyde slightly exceeded the ASTDR chronic MRL on one occasion, the average levels of formaldehyde recorded from all locations from mid-April through mid-May were below the chronic MRL.
- Sampling for hydrogen fluoride and hydrogen chloride should be eliminated.
- There are no clear trends with regard to the specific compounds or the concentrations of those compounds detected with respect to whether the monitoring location was upwind or downwind of the landfill during the time that the samples were collected.
- The results presented in this Monthly Report #25 continue to support our conclusions that the occurrence of low levels of VOCs, aldehydes, and inorganic acids in the air of the community surrounding Countywide reflect local and regional sources; and that the levels of these compounds in the ambient air do not represent either an immediate or long-term threat to public health.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 1: Event #117: April 22/23, 2009

Analyte				Monitoring Location				
				School	***Cell Tower***	***Campground***		***Wetland***
						Co-Located		
	Prevailing Wind Direction			C/C	C/C	C/C		D/C
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	74	8.6J	14	9.7J	17
Benzene	29	10	**0.25**	**0.26J**	**0.56J**	**0.48J**	**0.49J**	**0.45J**
Bromomethane	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.44J	0.13J	0.38J	0.20J	0.30J
Carbon disulfide	NA	934	730	0.24J	0.31J	0.20J	0.16J	0.16J
Carbon tetrachloride	188	188	**0.13**	**0.36J**	**0.41J**	**0.38J**	**0.41J**	**0.40J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	ND	ND	ND
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	1.2	1.0	0.94J	1.1	0.92J
Cyclohexane	NA	NA	6200	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	2.2	1.9	1.7	2.0	1.8
1,1-Dichloroethene	NA	NA	NA	0.22J	ND	ND	ND	ND
cis-1,2-Dichloroethene	NA	NA	37	1.5	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	0.37J	0.73J	0.47J	ND
4-Ethyltoluene	NA	NA	NA	ND	0.99J	ND	1.4J	0.34J
Heptane	NA	NA	NA	ND	0.23J	0.25J	0.28J	0.23J
Hexane	NA	2115	210	0.44J	0.36J	0.38J	0.34J	0.33J
Methyl ethyl ketone	NA	NA	5100	3.3	1.1J	2.9J	1.6J	2.6J
Methyl isobutyl ketone	NA	NA	3100	ND	ND	0.31J	0.74J	ND
Methylene chloride	2084	1042	4.1	1.7JB	1.9B	1.6JB	1.5JB	1.3JB
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Toluene	3768	301	400	ND	1.3	1.0	1.5	0.84
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.53J	0.51J	0.47J	0.51J	0.49
Trichlorofluoromethane	NA	NA	730	1.1	1.0J	0.90J	1.1J	1.0J
1,2,4-Trimethylbenzene	NA	NA	6.2	ND	2.1	0.59J	3.5	0.47J
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	0.55J	ND	1.8	ND
2,2,4-Trimethylpentane	NA	NA	NA	ND	ND	ND	ND	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	ND	1.4	2.0	2.9	0.63J
o-Xylene	8687	8687	110	ND	0.56J	0.36J	1.3	ND

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.

Countywide Recycling & Disposal Facility								
EPA Method TO-15 Modified: Volatile Organic Compounds								
Table 2: Event #118: April 28/29, 2009								
Analyte				**Monitoring Location**				
				School	***Cell Tower***	***Campground***	***Wetland***	
							Co-Located	
	Prevailing Wind Direction			V/C	V/C	V/C	V/U	
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	15	5.5J	10.0J	12	9.2J
Benzene	29	10	**0.25**	**0.52J**	**0.64**	0.57J	0.51J	**0.55J**
Bromomethane	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.27J	ND	0.20J	0.23J	0.16J
Carbon disulfide	NA	934	730	ND	ND	ND	ND	ND
Carbon tetrachloride	188	188	**0.13**	**0.55J**	**0.60J**	0.60J	0.59J	**ND**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	ND	ND	ND
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	1.7	1.1	1.2	1.4	1.3
Cyclohexane	NA	NA	6200	0.25J	0.23J	ND	ND	0.15J
Dichlorodifluoromethane	NA	NA	210	2.4	2.4	2.5	2.4	2.4
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	ND	ND	ND	0.42J
4-Ethyltoluene	NA	NA	NA	0.36J	0.34J	ND	ND	0.69J
Heptane	NA	NA	NA	0.81J	0.39J	0.68J	0.60J	0.48J
Hexane	NA	2115	210	0.55J	0.47J	0.73J	0.52J	0.70J
Methyl ethyl ketone	NA	NA	5100	3.3	0.83J	1.6J	1.9J	1.2J
Methyl isobutyl ketone	NA	NA	3100	0.24J	ND	ND	0.34J	1.2J
Methylene chloride	2084	1042	4.1	3.6	3.9	3.5	3.3	4.4
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrachloroethene	1378	276	0.32	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Toluene	3768	301	400	1.2	1.2	1.2	1.1	1.3
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.55J	0.56J	0.60J	0.57J	0.59J
Trichlorofluoromethane	NA	NA	730	1.2	1.2	1.2	1.2	1.2
1,2,4-Trimethylbenzene	NA	NA	6.2	0.96J	0.74J	0.52J	0.75J	2.8
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	ND	0.59J
2,2,4-Trimethylpentane	NA	NA	NA	ND	ND	ND	ND	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	1.00	0.92	0.97	0.91	1.9
o-Xylene	8687	8687	110	0.41J	0.36J	0.40J	0.34J	0.76J
*Prevailing Wind Direction with respect to the landfill								
U: Upwind								
D: Downwind								
C: Crosswind								
V: Variable								
NS = No Sample								
ND = Not Detected								
NA = Not Available								
Y = TIC present								
Bold indicates result exceeds Region 9 PRG								
Shading indicates result exceeds ATSDR MRL								
Laboratory Data Qualifiers:								
B = Compound present in blank								
J = Estimated concentration below laboratory reporting limit								
D = Dilution								
E = Exceeds calibration range of instrument								
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.								

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 3: Event #119: May 4/5, 2009

Analyte				Monitoring Location				
				School	***Cell Tower***	***Campground***	***Wetland***	
					Co-Located			
	Prevailing Wind Direction			D/C	D/C	U/C	U/U	
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	27	10J	29	8.4J	13
Benzene	29	10	**0.25**	**0.57J**	**0.43J**	**0.61J**	**0.43J**	**0.49J**
Bromomethane	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.58J	0.22J	0.49J	0.21J	0.25J
Carbon disulfide	NA	934	730	0.11J	ND	0.43J	ND	ND
Carbon tetrachloride	188	188	**0.13**	**0.67J**	**0.64J**	**0.81J**	**0.67J**	**0.70J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	0.36J	ND	ND
Chloroform	488	98	0.083	ND	ND	2.1	ND	ND
Chloromethane	1033	103	95	1.6	1.8	3.2	1.8	2.0
Cyclohexane	NA	NA	6200	ND	ND	0.25J	ND	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	0.59J	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	2.7	2.6	2.8	2.7	2.9
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	ND	0.49J	ND	ND
4-Ethyltoluene	NA	NA	NA	ND	ND	0.69J	ND	ND
Heptane	NA	NA	NA	1.7J	0.58J	0.74J	0.67J	0.87J
Hexane	NA	2115	210	0.75J	0.79J	0.90J	0.75J	0.81J
Methyl ethyl ketone	NA	NA	5100	6.0	1.3J	2.2J	1.4J	2.2J
Methyl isobutyl ketone	NA	NA	3100	0.52J	ND	0.25J	ND	0.24J
Methylene chloride	2084	1042	4.1	5.4B	9.0B	7.4B	6.3B	3.7B
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	0.24J
Toluene	3768	301	400	1.2	0.92	1.9	0.88	1.1
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.58J	0.60J	0.56J	0.59J	0.56J
Trichlorofluoromethane	NA	NA	730	1.4	1.4	1.5	1.4	1.4
1,2,4-Trimethylbenzene	NA	NA	6.2	0.46J	0.36J	2.2	0.41J	ND
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	0.55J	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	0.21J	ND	0.21J	ND	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	1.1	0.73J	1.9	0.76J	0.53J
o-Xylene	8687	8687	110	0.42J	0.30J	0.83J	0.28J	ND

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 4: Event #120: May 10/11, 2009

Analyte				Monitoring Location					
				School		***Cell Tower***	***Campground***	***Wetland***	
				Co-Located					
	Prevailing Wind Direction			C/V		C/V	C/V	C/V	
	All results in ug/m3								
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**						
Acetone	61762	30881	3300	35	11J	9.1J	15	26	
Benzene	29	10	**0.25**	**0.92**	**0.91**	**0.55J**	**0.61J**	**0.58J**	
Bromomethane	194	19	5.2	ND	ND	ND	ND	ND	
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND	
tert-Butyl alcohol	NA	NA	NA	0.81J	0.30J	0.16J	0.32J	0.56J	
Carbon disulfide	NA	934	730	0.17J	ND	ND	ND	0.10J	
Carbon tetrachloride	188	188	**0.13**	**0.67J**	**0.50J**	**0.67J**	**0.52J**	**0.50J**	
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND	
Chloroethane	39583	NA	2.3	0.14J	ND	ND	0.10J	0.20J	
Chloroform	488	98	0.083	ND	ND	ND	ND	ND	
Chloromethane	1033	103	95	1.3	1.3	1.0	1.4	1.3	
Cyclohexane	NA	NA	6200	0.22J	0.21J	0.32J	0.34J	0.25J	
1,4- Dichlorobenzene	12020	60	0.31	ND	ND	ND	ND	ND	
Dichlorodifluoromethane	NA	NA	210	2.7	2.6	2.1	2.7	2.7	
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND	
Ethylbenzene	43419	1303	1100	0.48J	0.75J	0.30J	ND	0.34J	
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND	
Heptane	NA	NA	NA	1.9J	0.90J	0.79J	0.81J	1.5J	
Hexane	NA	2115	210	0.86J	0.77J	1.0J	0.85J	0.80J	
Methyl ethyl ketone	NA	NA	5100	7.1	1.7J	1.1J	2.5J	5.7	
Methyl isobutyl ketone	NA	NA	3100	0.61J	0.21J	ND	ND	0.42J	
Methylene chloride	2084	1042	4.1	0.72JB	0.67JB	1.2JB	6.0B	1.0JB	
Styrene	8520	852	1100	ND	ND	ND	ND	ND	
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND	
Toluene	3768	301	400	1.8	2.0	1.1	1.5	1.3	
Trichloroethene	10920	546	0.017	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	10800	NA	2300	ND	ND	ND	ND	ND	
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.59J	0.59J	0.53J	0.56J	0.63J	
Trichlorofluoromethane	NA	NA	730	1.4	1.4	1.3	1.4	1.5	
1,2,4-Trimethylbenzene	NA	NA	6.2	0.41J	0.75J	0.36J	ND	ND	
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	ND	ND	
2,2,4-Trimethylpentane	NA	NA	NA	0.33J	0.33J	ND	ND	0.18J	
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND	
m/p-Xylene	8687	8687	110	1.2	1.7	0.74J	ND	1.1	
o-Xylene	8687	8687	110	0.49J	0.78J	0.30J	ND	0.38J	

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = No Sample
ND = Not Detected
NA = Not Available
Y = TIC present
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 5: Event #121: May 16/17, 2009

Analyte				Monitoring Location				
				School	***Cell Tower***	***Campground***		***Wetland***
						Co-Located		
	Prevailing Wind Direction			C/D	C/D	C/U		D/C
	All results in ug/m3							
Method TO-15 Modified	**Acute MRL**	**Chronic MRL**	**PRG**					
Acetone	61762	30881	3300	13	7.2J	8.9J	11J	13
Benzene	29	10	**0.25**	**0.35J**	**0.43J**	**0.40J**	**0.51J**	**0.40J**
Bromomethane	194	19	5.2	ND	ND	0.20J	ND	ND
1,3-Butadiene	NA	NA	0.061	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	0.34J	0.25J	0.19J	0.15J	0.23J
Carbon disulfide	NA	934	730	ND	ND	ND	ND	ND
Carbon tetrachloride	188	188	**0.13**	**0.70J**	**0.58J**	**0.61J**	**0.64J**	**0.61J**
Chlorobenzene	NA	NA	62	ND	ND	ND	ND	ND
Chloroethane	39583	NA	2.3	ND	ND	0.11J	ND	ND
Chloroform	488	98	0.083	ND	ND	ND	ND	ND
Chloromethane	1033	103	95	1.0J	1.2	1.8	1.3	1.0J
Cyclohexane	NA	NA	6200	ND	ND	ND	0.15J	ND
1,4- Dichlorobenzene	12020	60	0.31	ND	0.70J	ND	ND	ND
Dichlorodifluoromethane	NA	NA	210	2.6	2.3	2.3	2.3	2.3
1,2-Dichloroethane	NA	2428	0.0074	ND	ND	ND	1.1	ND
cis-1,2-Dichloroethene	NA	NA	37	ND	ND	ND	ND	ND
Ethylbenzene	43419	1303	1100	ND	ND	ND	ND	ND
4-Ethyltoluene	NA	NA	NA	ND	ND	ND	ND	ND
Heptane	NA	NA	NA	0.52J	0.25J	0.35J	0.44J	ND
Hexane	NA	2115	210	0.45J	0.38J	0.54J	0.77J	0.44J
Methyl ethyl ketone	NA	NA	5100	2.1J	0.74J	1.6J	1.4J	2.3J
Methyl isobutyl ketone	NA	NA	3100	0.23J	ND	ND	ND	ND
Methylene chloride	2084	1042	4.1	2.1B	5.6B	5.2B	2.9B	1.9B
Styrene	8520	852	1100	ND	ND	ND	ND	ND
Tetrachloroethene	1356	271	0.32	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	0.99	ND	ND	ND	ND	ND
Toluene	3768	301	400	0.57J	0.53	0.66J	0.90	0.49J
Trichloroethene	10920	546	0.017	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	0.69J	0.60J	0.60J	0.56J	0.59J
Trichlorofluoromethane	NA	NA	730	1.5	1.2	1.3	1.3	1.3
1,2,4-Trimethylbenzene	NA	NA	6.2	0.78J	ND	ND	0.41J	ND
1,3,5-Trimethylbenzene	NA	NA	6.2	ND	ND	ND	0.50J	ND
2,2,4-Trimethylpentane	NA	NA	NA	ND	ND	ND	ND	ND
Vinyl Chloride	1278	77	0.11	ND	ND	ND	ND	ND
m/p-Xylene	8687	8687	110	0.57J	ND	0.54J	0.57J	ND
o-Xylene	8687	8687	110	ND	ND	ND	ND	ND

*Prevailing Wind Direction with respect to the landfill
U: Upwind
D: Downwind
C: Crosswind
V: Variable

NS = Not Sampled
ND = Not Detected
NA = Not Available
Y = TIC Present in Sample
N = TIC Not Present in Sample
Bold indicates result exceeds Region 9 PRG
Shading indicates result exceeds ATSDR MRL

Laboratory Data Qualifiers:
B = Compound present in blank
J = Estimated concentration below laboratory reporting limit
D = Dilution
E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 12, 2009

APPENDIX A. Laboratory Analytical Results from Event #117:
Sampling conducted Wednesday April 22 to Thursday April 23

Test America Laboratories: EPA Method TO-15M
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

Countywide

Lot #: H9D280196

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 14, 2009

ANALYTICAL METHODS SUMMARY

H9D280196

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

H9D280196

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LAXAR	001	SV-C042209	04/22/09	
LAXA7	002	SV-G042209	04/22/09	
LAXCA	003	SV-S042209	04/22/09	
LAXCD	004	SV-W042209	04/22/09	
LAXCH	005	SV-COG042209	04/22/09	

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
H9D280196
REVISED

This report has been revised. The sample IDs have been corrected.

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

The containers for all samples were received without a label.

The chain of custody documentation listed the canister ID for sample SU-W042209 as 7495. The correct ID should be 7494.

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.

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-C042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 001 **Work Order #** LAXAR1AA **Matrix.....:** AIR

Date Sampled...: 04/22/2009 **Date Received..:** 04/28/2009
Prep Date.....: 04/29/2009 **Analysis Date...** 04/29/2009
Prep Batch #.....: 9120133
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	**3.6**	**5.0**	**8.6**	**J**	**12**
Ethylbenzene	**0.086**	**0.20**	**0.37**	**J**	**0.87**
Trichlorofluoromethane	**0.18**	**0.20**	**1.0**	**J**	**1.1**
n-Heptane	**0.055**	**0.50**	**0.23**	**J**	**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	**0.043**	**2.0**	**0.13**	**J**	**6.1**
Methylene chloride	**0.56**	**0.50**	**1.9**	**B**	**1.7**
Benzene	**0.18**	**0.20**	**0.56**	**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	**0.35**	**0.20**	**1.3**		**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	**0.067**	**0.20**	**0.51**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.43**	**0.20**	**2.1**		**0.98**
1,3,5-Trimethylbenzene	**0.11**	**0.20**	**0.55**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.13**	**0.20**	**0.56**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.32**	**0.20**	**1.4**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.36**	**1.0**	**1.1**	**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	**0.20**	**0.40**	**0.99**	**J**	**2.0**
Carbon disulfide	**0.098**	**0.50**	**0.31**	**J**	**1.6**
Carbon tetrachloride	**0.065**	**0.20**	**0.41**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 001 **Work Order #** LAXAR1AA **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	**0.51**	**0.50**	**1.0**	**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	**0.38**	**0.20**	**1.9**	**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	96	70 - 130

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-G042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 002 **Work Order #** LAXA71AA **Matrix.....:** AIR

Date Sampled...: 04/22/2009 **Date Received..:** 04/28/2009
Prep Date.....: 04/29/2009 **Analysis Date...** 04/29/2009
Prep Batch #.....: 9120133
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	**5.7**	**5.0**	**14**		**12**
Ethylbenzene	**0.17**	**0.20**	**0.73**	**J**	**0.87**
Trichlorofluoromethane	**0.16**	**0.20**	**0.90**	**J**	**1.1**
n-Heptane	**0.061**	**0.50**	**0.25**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.38**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.13**	**2.0**	**0.38**	**J**	**6.1**
Methylene chloride	**0.46**	**0.50**	**1.6**	**J B**	**1.7**
Benzene	**0.15**	**0.20**	**0.48**	**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	**0.27**	**0.20**	**1.0**		**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**	**0.47**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.59**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.083**	**0.20**	**0.36**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.47**	**0.20**	**2.0**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.98**	**1.0**	**2.9**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.076**	**0.50**	**0.31**	**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	ND	0.40	ND		2.0
Carbon disulfide	**0.064**	**0.50**	**0.20**	**J**	**1.6**
Carbon tetrachloride	**0.061**	**0.20**	**0.38**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 002 **Work Order #** LAXA71AA **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	**0.45**	**0.50**	**0.94**	**J**	**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	**0.35**	**0.20**	**1.7**		**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	70 - 130

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-S042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 003 **Work Order #** LAXCA1AA **Matrix.....:** AIR

Date Sampled...: 04/22/2009 **Date Received..:** 04/28/2009
Prep Date.....: 04/29/2009 **Analysis Date...** 04/29/2009
Prep Batch #.....: 9120133
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	**31**	**5.0**	**74**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.20**	**0.20**	**1.1**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.44**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.14**	**2.0**	**0.44**	**J**	**6.1**
Methylene chloride	**0.48**	**0.50**	**1.7**	**J B**	**1.7**
Benzene	**0.080**	**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	ND	0.20	ND		0.75
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	**0.034**	**0.20**	**0.19**	**J**	**1.1**
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	**1.0**	**0.20**	**5.5**		**1.1**
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.069**	**0.20**	**0.53**	**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)	**1.1**	**1.0**	**3.3**		**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	**0.076**	**0.50**	**0.24**	**J**	**1.6**
Carbon tetrachloride	**0.058**	**0.20**	**0.36**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 003 **Work Order #** LAXCA1AA **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	**0.56**	**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	**0.44**	**0.20**	**2.2**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	ND	0.20	ND		0.81
1,1-Dichloroethene	**0.054**	**0.20**	**0.22**	**J**	**0.79**
cis-1,2-Dichloroethene	**0.37**	**0.20**	**1.5**		**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	96	70 - 130

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-W042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 004 **Work Order #** LAXCD1AA **Matrix.....:** AIR

Date Sampled...: 04/22/2009 **Date Received..:** 04/28/2009
Prep Date.....: 04/29/2009 **Analysis Date...** 04/29/2009
Prep Batch #.....: 9120133
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	**7.3**	**5.0**	**17**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.18**	**0.20**	**1.0**	**J**	**1.1**
n-Heptane	**0.055**	**0.50**	**0.23**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.093**	**0.50**	**0.33**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.098**	**2.0**	**0.30**	**J**	**6.1**
Methylene chloride	**0.38**	**0.50**	**1.3**	**J B**	**1.7**
Benzene	**0.14**	**0.20**	**0.45**	**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	**0.22**	**0.20**	**0.84**		**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	**0.064**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.096**	**0.20**	**0.47**	**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	**0.14**	**0.20**	**0.63**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.90**	**1.0**	**2.6**	**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	**0.069**	**0.40**	**0.34**	**J**	**2.0**
Carbon disulfide	**0.051**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.064**	**0.20**	**0.40**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 004 **Work Order #** LAXCD1AA **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	**0.45**	**0.50**	**0.92**	**J**	**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	**0.35**	**0.20**	**1.8**		**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	100	70 - 130

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-COG042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 005 **Work Order #** LAXCH1AA **Matrix.....:** AIR

Date Sampled...: 04/22/2009 **Date Received..:** 04/28/2009
Prep Date.....: 04/29/2009 **Analysis Date...** 04/29/2009
Prep Batch #.....: 9120133
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	**4.1**	**5.0**	**9.7**	**J**	**12**
Ethylbenzene	**0.11**	**0.20**	**0.47**	**J**	**0.87**
Trichlorofluoromethane	**0.19**	**0.20**	**1.1**	**J**	**1.1**
n-Heptane	**0.069**	**0.50**	**0.28**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.098**	**0.50**	**0.34**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.066**	**2.0**	**0.20**	**J**	**6.1**
Methylene chloride	**0.43**	**0.50**	**1.5**	**J B**	**1.7**
Benzene	**0.15**	**0.20**	**0.49**	**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	**0.39**	**0.20**	**1.5**		**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	**0.067**	**0.20**	**0.51**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.72**	**0.20**	**3.5**		**0.98**
1,3,5-Trimethylbenzene	**0.37**	**0.20**	**1.8**		**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.31**	**0.20**	**1.3**		**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.66**	**0.20**	**2.9**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.55**	**1.0**	**1.6**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.18**	**0.50**	**0.74**	**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	**0.28**	**0.40**	**1.4**	**J**	**2.0**
Carbon disulfide	**0.052**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.065**	**0.20**	**0.41**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COG042209

GC/MS Volatiles

Lot-Sample # H9D280196 - 005 **Work Order #** LAXCH1AA **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	**0.52**	**0.50**	**1.1**	**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	**0.40**	**0.20**	**2.0**	**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	93	70 - 130

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 # H9D300000 - 133B **Work Order #** LA3QK1AA **Matrix.....:** AIR

	04/22/2009	**Date Received..:**	04/28/2009
Prep Date.....:	04/29/2009	**Analysis Date...**	04/29/2009
Prep Batch #.....:	9120133		
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	**0.13**	**0.50**	**0.47**	**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 # H9D300000 - 133B **Work Order #** LA3QK1AA **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	95	70 - 130

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 # H9D300000 - 133C **Work Order #** LA3QK1AC **Matrix.....:** AIR

	04/22/2009	**Date Received..:**	04/28/2009
Prep Date.....:	04/29/2009	**Analysis Date...**	04/29/2009
Prep Batch #.....:	9120133		
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
Benzene	2.50	2.58	8.0	8.2	103	70 - 130
Toluene	2.50	2.59	9.4	9.8	104	70 - 130
Trichloroethene	2.50	2.51	13	13	100	70 - 130
Chlorobenzene	2.50	2.67	12	12	107	70 - 130
1,1-Dichloroethene	2.50	2.73	9.9	11	109	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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.

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

2115 Freeman Avenue
Cleveland, OH 44113
Phone: (216) 737-0700
Fax: (216) 737-0109

H9D280196

№ 8436

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8592 3781 2414
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): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis / Method	VOC TO15	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C042209				4/22/09	1440	Cell Tower	1			X			12404
SU-G042209				4/22/09	1440	Campground	1			X			6649
SU-S042209				4/22/09	1440	School	1			X			12259
SU-W042209				4/22/09	1440	Wetland	1			X			7495
SU-COG042209				4/22/09	1440	Co-Loc Campground	1			X			3277

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 4/28/09
FED EX # 8592 3781 2414

6 CANS/6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	04/27/09 1500	Ryan Henry	4/28/09 1000				
[signature]	04/24/09 0:00						

Comments:

Distributor: White - File; Yellow - Lab

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

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)	4/22/09 Time Start	4/23/09 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-C042209	4/22/09	1500	1500	-29.0	-3.5	K136	12404	X											
SU-G042209	↓	↓	↓	-29.0	-4.5	K397	6649	X											
SU-S042209	↓	↓	↓	-29.0	-2.0	K326	12259	X											
SU-W042209	↓	↓	↓	-29.0	-2.5	K263	7495	X											
SU-COG042209	↓	↓	↓	-29.0	-2.0	K370	3277	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Return Can #02308, did not use.

Canisters Shipped by: [signature]	Date/Time: 4/27/09 1500	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 04/24/09 0800	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** ~~H9DO~~ RH H9D280196

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:	1e - NO SAMPLE LABEL; MATCHED BY CAN ID 1g - CAN ID 7495; SHOULD BE 7494
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 SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
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 #: _____ PM Instructions: _____

Sample Receiving Associate: Lynn Henry Date: 4/28/09

QA026R19.doc, 080707

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May 13, 2009

LABORATORY REPORT

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

Work Order: PSD1541
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 04/28/09

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 19.8°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

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

Work Order: PSD1541
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 04/28/09
Reported: 05/13/09 16:54

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C042209-01A	PSD1541-01	04/22/09	DNPH Silica Gel Tube, 450 mg
C042209-02A	PSD1541-02	04/22/09	DNPH Silica Gel Tube, 450 mg
C042209-03A	PSD1541-03	04/22/09	DNPH Silica Gel Tube, 450 mg
G042209-01A	PSD1541-04	04/22/09	DNPH Silica Gel Tube, 450 mg
G042209-02A	PSD1541-05	04/22/09	DNPH Silica Gel Tube, 450 mg
G042209-03A	PSD1541-06	04/22/09	DNPH Silica Gel Tube, 450 mg
S042209-01A	PSD1541-07	04/22/09	DNPH Silica Gel Tube, 450 mg
S042209-02A	PSD1541-08	04/22/09	DNPH Silica Gel Tube, 450 mg
S042209-03A	PSD1541-09	04/22/09	DNPH Silica Gel Tube, 450 mg
W042209-01A	PSD1541-10	04/22/09	DNPH Silica Gel Tube, 450 mg
W042209-02A	PSD1541-11	04/22/09	DNPH Silica Gel Tube, 450 mg
W042209-03A	PSD1541-12	04/22/09	DNPH Silica Gel Tube, 450 mg
042209A-A	PSD1541-13	04/22/09	DNPH Silica Gel Tube, 450 mg
C042209-01H	PSD1541-14	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
C042209-02H	PSD1541-15	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
C042209-03H	PSD1541-16	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
G042209-01H	PSD1541-17	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
G042209-02H	PSD1541-18	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
G042209-03H	PSD1541-19	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
S042209-01H	PSD1541-20	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
S042209-02H	PSD1541-21	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
S042209-03H	PSD1541-22	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
W042209-01H	PSD1541-23	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
W042209-02H	PSD1541-24	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
W042209-03H	PSD1541-25	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned
042209A-H	PSD1541-26	04/22/09	Silica Gel tube, 200/400 mg Specially cleaned

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSD1541 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 04/28/09 Reported: 05/13/09 16:54	

ANALYTICAL REPORT

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

Sample ID: PSD1541-01 (C042209-01A) — **Tube** — **Sample Air Volume:227.04L** — **Sampled: 04/22/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000132	<0.0000241	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.85	0.00815	0.00452	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0827	0.000364	0.000202	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.77	0.0078	0.00433	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.59	0.007	0.00295	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.426	0.00188	0.00079	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.16	0.00511	0.00215	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000132	<0.0000576	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.397	0.00175	0.000403	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.591	0.0026	0.000883	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000132	<0.0000461	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.787	0.00347	0.00282	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0814	0.000359	0.000292	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.706	0.00311	0.00253	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.11	0.00489	0.00119	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000132	<0.0000375	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0604	0.000266	0.0000541	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.156	0.000687	0.00014	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.267	0.00118	0.000495	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000132	<0.0000269	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.345	0.00152	0.000431	IH10	5/6/2009	zn	0.0300	EPA TO-11A

Sample ID: PSD1541-02 (C042209-02A) — **Tube** — **Sample Air Volume:186.72L** — **Sampled: 04/22/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000161	<0.0000293	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.975	0.00522	0.0029	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0758	0.000406	0.000225	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.899	0.00481	0.00267	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.25	0.00669	0.00282	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.404	0.00216	0.000911	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.848	0.00454	0.00191	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000161	<0.0000701	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.232	0.00124	0.000286	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.291	0.00156	0.000528	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000161	<0.000056	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.555	0.00297	0.00242	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0862	0.000462	0.000376	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.469	0.00251	0.00205	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.630	0.00337	0.000824	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000161	<0.0000456	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0414	0.000222	0.0000451	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.106	0.000568	0.000116	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSD1541-02 (C042209-02A) - cont.	**Tube**		**Sample Air Volume:186.72L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Propionaldehyde	0.163	0.000873	0.000367	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000161	<0.0000327	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.175	0.000937	0.000266	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-03 (C042209-03A)	**Tube**		**Sample Air Volume:233.28L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000129	<0.0000234	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.83	0.0121	0.00673	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0938	0.000402	0.000223	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.74	0.0117	0.00652	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	2.00	0.00857	0.00361	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.488	0.00209	0.000881	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.51	0.00647	0.00272	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000129	<0.0000561	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.287	0.00123	0.000283	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000129	<0.0000436	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000129	<0.0000449	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.906	0.00388	0.00316	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0774	0.000332	0.00027	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.829	0.00355	0.00289	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.807	0.00346	0.000844	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Back	0.0333	0.000143	0.0000348	IH10	5/5/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Front	0.774	0.00332	0.00081	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000129	<0.0000365	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000129	<0.0000262	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.122	0.000523	0.000106	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.309	0.00132	0.000558	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000129	<0.0000262	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.274	0.00117	0.000333	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-04 (G042209-01A)	**Tube**		**Sample Air Volume:150.24L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002	<0.0000364	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.08	0.00719	0.00399	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0723	0.000481	0.000267	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.01	0.00672	0.00373	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.501	0.00333	0.0014	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002	<0.0000871	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.290	0.00193	0.000445	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.351	0.00234	0.000792	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002	<0.0000697	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.670	0.00446	0.00363	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0682	0.000454	0.00037	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.602	0.00401	0.00326	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.973	0.00648	0.00158	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSD1541-04 (G042209-01A) - cont.		**Tube**		**Sample Air Volume:150.24L**				**Sampled: 04/22/09**
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	0.0763	0.000508	0.000144	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002	<0.0000406	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0843	0.000561	0.000114	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.181	0.0012	0.000507	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002	<0.0000406	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.269	0.00179	0.000508	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-05 (G042209-02A)		**Tube**		**Sample Air Volume:117.12L**				**Sampled: 04/22/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000256	<0.0000467	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.550	0.0047	0.00261	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0651	0.000556	0.000309	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.485	0.00414	0.0023	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.919	0.00785	0.0033	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.379	0.00324	0.00136	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.540	0.00461	0.00194	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000256	<0.000112	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.265	0.00226	0.000521	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.226	0.00193	0.000654	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0496	0.000423	0.000144	IH10	5/5/2009	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	0.176	0.0015	0.00051	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000256	<0.0000894	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.501	0.00428	0.00348	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0593	0.000506	0.000412	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.442	0.00377	0.00307	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.487	0.00416	0.00102	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000256	<0.0000727	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000256	<0.0000521	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0511	0.000436	0.0000888	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.102	0.000871	0.000367	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000256	<0.0000521	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0389	0.000332	0.0000943	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSD1541-06 (G042209-03A)	**Tube**		**Sample Air Volume:163.68L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000183	<0.0000334	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.36	0.0144	0.008	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0918	0.000561	0.000311	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.27	0.0139	0.0077	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.87	0.0114	0.00481	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.490	0.00299	0.00126	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.38	0.00843	0.00355	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000183	<0.0000799	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.302	0.00185	0.000425	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000183	<0.0000621	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000183	<0.0000639	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.14	0.00696	0.00567	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0735	0.000449	0.000366	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.07	0.00654	0.00532	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.936	0.00572	0.0014	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000183	<0.000052	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000183	<0.0000373	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0769	0.00047	0.0000956	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.287	0.00175	0.000738	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000183	<0.0000373	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.299	0.00183	0.000519	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-07 (S042209-01A)	**Tube**		**Sample Air Volume:125.76L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000239	<0.0000435	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.92	0.0153	0.00847	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0635	0.000505	0.00028	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.86	0.0148	0.00821	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.749	0.00596	0.00251	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000239	<0.000104	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.335	0.00266	0.000614	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000239	<0.0000809	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000239	<0.0000832	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.650	0.00517	0.00421	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0697	0.000554	0.000451	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.580	0.00461	0.00375	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.01	0.00803	0.00196	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000239	<0.0000677	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000239	<0.0000485	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000239	<0.0000485	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.294	0.00234	0.000984	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000239	<0.0000485	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.252	0.002	0.000569	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSD1541-08 (S042209-02A)	**Tube**		**Sample Air Volume:237.12L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000127	<0.0000231	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.890	0.00375	0.00208	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0653	0.000275	0.000153	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.825	0.00348	0.00193	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.535	0.00226	0.00095	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000127	<0.0000552	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.246	0.00104	0.000239	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.252	0.00106	0.00036	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	0.0524	0.000221	0.0000771	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Back (e)	0.0524	0.000221	0.0000771	IH10	5/5/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Front	<0.0300	<0.000127	<0.0000441	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.443	0.00187	0.00152	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0628	0.000265	0.000216	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.380	0.0016	0.0013	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.511	0.00216	0.000526	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000127	<0.0000359	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000127	<0.0000257	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0337	0.000142	0.0000289	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.161	0.000679	0.000286	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000127	<0.0000257	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.128	0.00054	0.000153	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-09 (S042209-03A)	**Tube**		**Sample Air Volume:246.24L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000122	<0.0000222	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.48	0.0141	0.00784	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0721	0.000293	0.000163	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.41	0.0138	0.00769	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	2.13	0.00865	0.00364	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.444	0.0018	0.000759	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.69	0.00686	0.00289	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000122	<0.0000531	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.379	0.00154	0.000355	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000122	<0.0000413	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000122	<0.0000425	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.995	0.00404	0.00329	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0698	0.000283	0.000231	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.925	0.00376	0.00306	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.959	0.00389	0.000951	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000122	<0.0000346	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000122	<0.0000248	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000122	<0.0000248	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.373	0.00151	0.000638	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000122	<0.0000248	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.283	0.00115	0.000326	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSD1541-10 (W042209-01A)	**Tube**		**Sample Air Volume:227.04L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000132	<0.0000241	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.75	0.0121	0.00672	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0686	0.000302	0.000168	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.68	0.0118	0.00655	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.18	0.0052	0.00219	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000132	<0.0000576	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.501	0.00221	0.000508	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000132	<0.0000448	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000132	<0.0000461	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.03	0.00454	0.00369	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0658	0.00029	0.000236	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.961	0.00423	0.00345	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.49	0.00656	0.0016	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0485	0.000214	0.0000606	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000132	<0.0000269	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000132	<0.0000269	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.431	0.0019	0.000799	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000132	<0.0000269	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.433	0.00191	0.000541	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-11 (W042209-02A)	**Tube**		**Sample Air Volume:219.84L**				**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000136	<0.0000249	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.954	0.00434	0.00241	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0694	0.000316	0.000175	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.885	0.00403	0.00223	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.568	0.00258	0.00109	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000136	<0.0000595	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.266	0.00121	0.000279	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000136	<0.0000463	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000136	<0.0000476	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.434	0.00197	0.00161	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0656	0.000298	0.000243	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.368	0.00167	0.00136	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.537	0.00244	0.000596	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000136	<0.0000387	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000136	<0.0000278	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000136	<0.0000278	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.156	0.00071	0.000299	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000136	<0.0000278	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.140	0.000637	0.000181	IH10	5/6/2009	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	Method
Sample ID: PSD1541-12 (W042209-03A)		**Tube**		**Sample Air Volume:206.88L**				**Sampled: 04/22/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000145	<0.0000264	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.92	0.0189	0.0105	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0805	0.000389	0.000216	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.84	0.0186	0.0103	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	2.13	0.0103	0.00433	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.431	0.00208	0.000877	IH10	5/5/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.70	0.00822	0.00346	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000145	<0.0000632	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.513	0.00248	0.000571	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000145	<0.0000492	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000145	<0.0000506	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.12	0.00541	0.00441	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0761	0.000368	0.000299	IH11	5/5/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.04	0.00503	0.00409	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.12	0.00541	0.00132	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0695	0.000336	0.0000954	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000145	<0.0000295	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.168	0.000812	0.000165	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.411	0.00199	0.000836	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000145	<0.0000295	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.377	0.00182	0.000517	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSD1541-13 (042209A-A)		**Tube**		**Sample Air Volume:L**				**Sampled: 04/22/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.141	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0662	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0746	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.36	--	--	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.463	--	--	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.898	--	--	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.172	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0649	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.107	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSD1541-14 (C042209-01H)		**Tube**		**Sample Air Volume:161.76L**			**Sampled: 04/22/09**	
Hydrochloric Acid	5.35	0.0331	0.0222		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0135	<0.0165		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-15 (C042209-02H)		**Tube**		**Sample Air Volume:166.08L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0114	<0.00767		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0132	<0.0161		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-16 (C042209-03H)		**Tube**		**Sample Air Volume:162.24L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0117	<0.00785		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0135	<0.0165		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-17 (G042209-01H)		**Tube**		**Sample Air Volume:121.92L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0156	<0.0105		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.018	<0.0219		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-18 (G042209-02H)		**Tube**		**Sample Air Volume:120.48L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0158	<0.0106		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0182	<0.0222		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-19 (G042209-03H)		**Tube**		**Sample Air Volume:117.12L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0162	<0.0109		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0187	<0.0228		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-20 (S042209-01H)		**Tube**		**Sample Air Volume:149.76L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0127	<0.00851		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0146	<0.0179		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-21 (S042209-02H)		**Tube**		**Sample Air Volume:204.96L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.00927	<0.00622		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0107	<0.0131		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-22 (S042209-03H)		**Tube**		**Sample Air Volume:171.84L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0111	<0.00741		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0127	<0.0156		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-23 (W042209-01H)		**Tube**		**Sample Air Volume:150.24L**			**Sampled: 04/22/09**	
Hydrochloric Acid	<1.90	<0.0126	<0.00848		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0146	<0.0178		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-24 (W042209-02H)		**Tube**		**Sample Air Volume:150.24L**			**Sampled: 04/22/09**	

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Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Inorganic Acids by NIOSH 7903 (Modified) - cont.								
Sample ID: PSD1541-24 (W042209-02H) - cont.		**Tube**		**Sample Air Volume:150.24L**			**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0126	<0.00848		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0146	<0.0178		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-25 (W042209-03H)		**Tube**		**Sample Air Volume:141.6L**			**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0134	<0.009		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0155	<0.0189		5/7/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSD1541-26 (042209A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 04/22/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	--	--		5/7/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	--	--		5/7/2009	ss	2.19	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)						
P9E0517-BLK1						
Formaldehyde	0.09234		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Formaldehyde - Back	0.05160		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acetaldehyde	0.07193		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acetaldehyde - Back	0.05579		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acrolein	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acrolein - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acetone	<0.300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Acetone - Back	<0.300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Propionaldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Crotonaldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Butyraldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Benzaldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Isovaleraldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Valeraldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
o-Tolualdehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
m-Tolualdehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
p-Tolualdehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Hexaldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9E0517	P9E0517-BLK1	05-05-2009
Inorganic Acids by NIOSH 7903 (Modified)						
P9E0625-BLK1						
Hydrochloric Acid	<1.90		ug, Total	P9E0625	P9E0625-BLK1	05-06-2009
Hydrochloric Acid - Back	<1.90		ug, Total	P9E0625	P9E0625-BLK1	05-06-2009
Hydrofluoric Acid	<2.19		ug, Total	P9E0625	P9E0625-BLK1	05-06-2009
Hydrofluoric Acid - Back	<2.19		ug, Total	P9E0625	P9E0625-BLK1	05-06-2009

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Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9E0517-DUP1									
Formaldehyde	0.7060	0.7215	IH11	ug, Total	2.17	10	P9E0517	PSD1541-01	05-06-2009
Acetaldehyde	1.770	1.802	IH11	ug, Total	1.79	10	P9E0517	PSD1541-01	05-06-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-01	05-06-2009
Acetone	1.160	1.176	IH10	ug, Total	1.37	10	P9E0517	PSD1541-01	05-06-2009
Propionaldehyde	0.2670	0.2755	IH10	ug, Total	3.13	10	P9E0517	PSD1541-01	05-06-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-01	05-06-2009
Butyraldehyde	0.5910	0.5771	IH10	ug, Total	2.38	10	P9E0517	PSD1541-01	05-06-2009
Benzaldehyde	0.3970	0.3673	IH10	ug, Total	7.77	10	P9E0517	PSD1541-01	05-06-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-01	05-06-2009
Valeraldehyde	0.3450	0.3237	IH10	ug, Total	6.37	10	P9E0517	PSD1541-01	05-06-2009
o-Tolualdehyde	0.1560	0.1384	IH10, R-9	ug, Total	12	10	P9E0517	PSD1541-01	05-06-2009
m-Tolualdehyde	0.06040	0.05481	IH10	ug, Total	9.7	10	P9E0517	PSD1541-01	05-06-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-01	05-06-2009
Hexaldehyde	1.110	1.114	IH10	ug, Total	0.36	10	P9E0517	PSD1541-01	05-06-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-01	05-06-2009
P9E0517-DUP2									
Formaldehyde	0.3680	0.3782	IH11	ug, Total	2.73	10	P9E0517	PSD1541-11	05-06-2009
Acetaldehyde	0.8850	0.8831	IH11	ug, Total	0.215	10	P9E0517	PSD1541-11	05-06-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
Acetone	0.5680	0.5639	IH10	ug, Total	0.724	10	P9E0517	PSD1541-11	05-06-2009
Propionaldehyde	0.1560	0.1550	IH10	ug, Total	0.643	10	P9E0517	PSD1541-11	05-06-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
Benzaldehyde	0.2660	0.3056	IH10, R-9	ug, Total	13.9	10	P9E0517	PSD1541-11	05-06-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
Valeraldehyde	0.1400	0.1513	IH10	ug, Total	7.76	10	P9E0517	PSD1541-11	05-06-2009
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009
Hexaldehyde	0.5370	0.5763	IH10	ug, Total	7.06	10	P9E0517	PSD1541-11	05-06-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0517	PSD1541-11	05-06-2009

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E0517-BS1								
Formaldehyde	0.45	0.5337	IH11	ug, Total	119%	22-134	P9E0517	05-05-2009
Acetaldehyde	0.45	0.5183	IH11	ug, Total	115%	51-142	P9E0517	05-05-2009
Acrolein	0.45	0.3060	IH10, L2	ug, Total	68%	75-125	P9E0517	05-05-2009
Acetone	0.45	0.9850	IH10, L1	ug, Total	219%	75-125	P9E0517	05-05-2009

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E0517-BS1								
Propionaldehyde	0.45	0.6298	IH10	ug, Total	140%	67-145	P9E0517	05-05-2009
Crotonaldehyde	0.45	0.4190	IH10	ug, Total	93%	66-146	P9E0517	05-05-2009
Butyraldehyde	0.45	0.5025	IH10	ug, Total	112%	56-141	P9E0517	05-05-2009
Benzaldehyde	0.45	0.4635	IH10	ug, Total	103%	57-142	P9E0517	05-05-2009
Isovaleraldehyde	0.45	0.4658	IH10	ug, Total	104%	66-144	P9E0517	05-05-2009
Valeraldehyde	0.45	0.4831	IH10	ug, Total	107%	66-144	P9E0517	05-05-2009
o-Tolualdehyde	0.45	0.4846	IH10	ug, Total	108%	39-130	P9E0517	05-05-2009
m-Tolualdehyde	0.45	0.4673	IH10	ug, Total	104%	73-143	P9E0517	05-05-2009
p-Tolualdehyde	0.45	0.4494	IH10	ug, Total	100%	66-147	P9E0517	05-05-2009
Hexaldehyde	0.45	0.4844	IH10	ug, Total	108%	65-145	P9E0517	05-05-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4606	IH10	ug, Total	102%	75-144	P9E0517	05-05-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9E0625-BS1								
Hydrochloric Acid	10.3	10.54	IH10	ug, Total	102%	70-130	P9E0625	05-06-2009
Hydrofluoric Acid	10.6	11.54	IH10	ug, Total	109%	70-130	P9E0625	05-06-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9E0517-BSD1												
Formaldehyde		0.5286	IH11	ug, Total	0.45	117%	22-134	0.96	20	P9E0517		05-05-2009
Acetaldehyde		0.5092	IH11	ug, Total	0.45	113%	51-142	1.77	20	P9E0517		05-05-2009
Acrolein		0.3150	IH10, L2	ug, Total	0.45	70%	75-125	2.9	20	P9E0517		05-05-2009
Acetone		0.6398	IH10,	ug, Total	0.45	142%	75-125	42.5	20	P9E0517		05-05-2009
Propionaldehyde		0.6146	IH10	ug, Total	0.45	137%	67-145	2.44	20	P9E0517		05-05-2009
Crotonaldehyde		0.4128	IH10	ug, Total	0.45	92%	66-146	1.49	20	P9E0517		05-05-2009
Butyraldehyde		0.4958	IH10	ug, Total	0.45	110%	56-141	1.34	20	P9E0517		05-05-2009
Benzaldehyde		0.4566	IH10	ug, Total	0.45	101%	57-142	1.5	20	P9E0517		05-05-2009
Isovaleraldehyde		0.4575	IH10	ug, Total	0.45	102%	66-144	1.8	20	P9E0517		05-05-2009
Valeraldehyde		0.4750	IH10	ug, Total	0.45	106%	66-144	1.69	20	P9E0517		05-05-2009
o-Tolualdehyde		0.4750	IH10	ug, Total	0.45	106%	39-130	2	20	P9E0517		05-05-2009
m-Tolualdehyde		0.4569	IH10	ug, Total	0.45	102%	73-143	2.25	20	P9E0517		05-05-2009
p-Tolualdehyde		0.4431	IH10	ug, Total	0.45	99%	66-147	1.41	20	P9E0517		05-05-2009
Hexaldehyde		0.4783	IH10	ug, Total	0.45	106%	65-145	1.27	20	P9E0517		05-05-2009
2,5-Dimethyl Benzaldehyde		0.4541	IH10	ug, Total	0.45	101%	75-144	1.42	20	P9E0517		05-05-2009
Inorganic Acids by NIOSH 7903 (Modified)												
P9E0625-BSD1												
Hydrochloric Acid		8.913	IH10	ug, Total	10.3	87%	70-130	16.7	30	P9E0625		05-06-2009
Hydrofluoric Acid		9.996	IH10	ug, Total	10.6	94%	70-130	14.3	30	P9E0625		05-06-2009

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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 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, 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

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSD1541 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 04/28/09 Reported: 05/13/09 16:54	

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).
IH5	The associated blank media spike recovery was above laboratory acceptance limits, because of background interference present in the media or solvent that was below the reporting limit, but high enough to have an effect on the recovery of the spikes.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
R-2	The RPD exceeded the acceptance limit.
R-9	Sample RPD exceeded the laboratory control limit.

ADDITIONAL COMMENTS

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 12, 2009

APPENDIX B. Laboratory Analytical Results from Event #118:
Sampling conducted Tuesday April 28 to Wednesday April 29

Test America Laboratories: EPA Method TO-15
Integrated Analytical Laboratories: EPA Method TO-11A, NIOSH 7903

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H9E010230

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 11, 2009

ANALYTICAL METHODS SUMMARY

H9E010230

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

H9E010230

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LA67X	001	SU-C042809	04/28/09	
LA671	002	SU-G042809	04/28/09	
LA672	003	SU-S042809	04/28/09	
LA675	004	SU-W042809	04/28/09	
LA677	005	SU-COW042809	04/28/09	

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
H9E010230

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.

Although chlorobenzene is flagged as being outside recovery limits in the laboratory control sample for batch 9124148, the laboratory control sample is in control. The standard operating procedure allows for two nonpolar analyte recoveries between 60% and 140% and two polar analyte recoveries between 45% and 155%.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be $\leq$40% difference from the initial calibration. The calibration verification analyzed on 05/01/09 exhibited a %difference of >30% but $\leq$40% for 1,1,2-trichloroethane and chlorobenzene.

The surrogate recoveries for batch 9124148 were quantified using the daily calibration verification standard.

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-C042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 001 **Work Order #** LA67X1AA **Matrix.....:** AIR

Date Sampled...: 04/28/2009 **Date Received..:** 05/01/2009
Prep Date.....: 05/01/2009 **Analysis Date...** 05/01/2009
Prep Batch #.....: 9124148
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	**2.3**	**5.0**	**5.5**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.096**	**0.50**	**0.39**	**J**	**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	ND	2.0	ND		6.1
Methylene chloride	**1.1**	**0.50**	**3.9**		**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	**0.32**	**0.20**	**1.2**		**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	**0.073**	**0.20**	**0.56**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.15**	**0.20**	**0.74**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.082**	**0.20**	**0.36**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.21**	**0.20**	**0.92**		**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**	**0.83**	**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	**0.069**	**0.40**	**0.34**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.096**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 001 **Work Order #** LA67X1AA **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	**0.55**	**0.50**	**1.1**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.066**	**0.50**	**0.23**	**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	**0.49**	**0.20**	**2.4**		**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	100	70 - 130

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-G042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 002 **Work Order #** LA6711AA **Matrix.....:** AIR

Date Sampled...: 04/28/2009 **Date Received..:** 05/01/2009
Prep Date.....: 05/01/2009 **Analysis Date...** 05/02/2009
Prep Batch #.....: 9124148
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**	**10.0**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.17**	**0.50**	**0.68**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.21**	**0.50**	**0.73**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.067**	**2.0**	**0.20**	**J**	**6.1**
Methylene chloride	**1.0**	**0.50**	**3.5**		**1.7**
Benzene	**0.18**	**0.20**	**0.57**	**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	**0.31**	**0.20**	**1.2**		**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	**0.079**	**0.20**	**0.60**	**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	**0.092**	**0.20**	**0.40**	**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)	**0.53**	**1.0**	**1.6**	**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	**0.096**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 002 **Work Order #** LA6711AA **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	**0.60**	**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	**0.51**	**0.20**	**2.5**	**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	97	70 - 130

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-S042809

GC/MS Volatiles

Lot-Sample #	H9E010230 - 003	**Work Order #**	LA6721AA	**Matrix.....:**	AIR

Date Sampled...:	04/28/2009	**Date Received..:**	05/01/2009
Prep Date.....:	05/01/2009	**Analysis Date...**	05/02/2009
Prep Batch #.....:	9124148		
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	**6.5**	**5.0**	**15**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.20**	**0.50**	**0.81**	**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	**0.090**	**2.0**	**0.27**	**J**	**6.1**
Methylene chloride	**1.0**	**0.50**	**3.6**		**1.7**
Benzene	**0.16**	**0.20**	**0.52**	**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	**0.31**	**0.20**	**1.2**		**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	**0.071**	**0.20**	**0.55**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.19**	**0.20**	**0.96**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.095**	**0.20**	**0.41**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.23**	**0.20**	**1.00**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.1**	**1.0**	**3.3**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.059**	**0.50**	**0.24**	**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	**0.073**	**0.40**	**0.36**	**J**	**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-S042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 003 **Work Order #** LA6721AA **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	**0.83**	**0.50**	**1.7**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.071**	**0.50**	**0.25**	**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	**0.48**	**0.20**	**2.4**		**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	99	70 - 130

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-W042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 004 **Work Order #** LA6751AA **Matrix.....:** AIR

Date Sampled...: 04/28/2009 **Date Received..:** 05/01/2009
Prep Date.....: 05/01/2009 **Analysis Date...** 05/02/2009
Prep Batch #.....: 9124148
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	**5.1**	**5.0**	**12**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.21**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.15**	**0.50**	**0.60**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.15**	**0.50**	**0.52**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.077**	**2.0**	**0.23**	**J**	**6.1**
Methylene chloride	**0.96**	**0.50**	**3.3**		**1.7**
Benzene	**0.16**	**0.20**	**0.51**	**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	**0.29**	**0.20**	**1.1**		**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**	**0.57**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.15**	**0.20**	**0.75**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.079**	**0.20**	**0.34**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.21**	**0.20**	**0.91**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.65**	**1.0**	**1.9**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.047**	**0.50**	**0.19**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.093**	**0.20**	**0.59**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 004 **Work Order #** LA6751AA **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	**0.67**	**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	**0.49**	**0.20**	**2.4**	**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	101	70 - 130

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-COW042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 005 **Work Order #** LA6771AA **Matrix.....:** AIR

Date Sampled...: 04/28/2009 **Date Received..:** 05/01/2009
Prep Date.....: 05/01/2009 **Analysis Date...** 05/02/2009
Prep Batch #.....: 9124148
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	**3.9**	**5.0**	**9.2**	**J**	**12**
Ethylbenzene	**0.096**	**0.20**	**0.42**	**J**	**0.87**
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.48**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.20**	**0.50**	**0.70**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.052**	**2.0**	**0.16**	**J**	**6.1**
Methylene chloride	**1.3**	**0.50**	**4.4**		**1.7**
Benzene	**0.17**	**0.20**	**0.55**	**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	**0.34**	**0.20**	**1.3**		**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	**0.078**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.56**	**0.20**	**2.8**		**0.98**
1,3,5-Trimethylbenzene	**0.12**	**0.20**	**0.59**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.17**	**0.20**	**0.76**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.44**	**0.20**	**1.9**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.39**	**1.0**	**1.2**	**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	**0.14**	**0.40**	**0.69**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	ND	0.20	ND		1.3

Lawhon & Associates, Inc.

Client Sample ID: SU-COW042809

GC/MS Volatiles

Lot-Sample # H9E010230 - 005 Work Order # LA6771AA 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	**0.62**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.044**	**0.50**	**0.15**	**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	**0.49**	**0.20**	**2.4**		**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	100	70 - 130

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 # H9E040000 - 148B **Work Order #** LA9LM1AA **Matrix.....:** AIR

	04/28/2009	**Date Received..:**	05/01/2009
Prep Date.....:	05/01/2009	**Analysis Date...**	05/01/2009
Prep Batch #.....:	9124148		
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 # H9E040000 - 148B Work Order # LA9LM1AA 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	70 - 130

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 # H9E040000 - 148C **Work Order #** LA9LM1AC **Matrix.....:** AIR

	04/28/2009	**Date Received..:**	05/01/2009
Prep Date.....:	05/01/2009	**Analysis Date...**	05/01/2009
Prep Batch #.....:	9124148		
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
Benzene	12.5	9.29	40	30	74		70 - 130
Toluene	12.5	8.85	47	33	71		70 - 130
Trichloroethene	12.5	10.8	67	58	87		70 - 130
Chlorobenzene	12.5	8.54	58	39	68	a	70 - 130
1,1-Dichloroethene	12.5	11.4	50	45	91		70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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

HYE 010230

№ 8438

☒ 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

~~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.: 8592 3781 2436
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): Rick Jones/Nick Iannaggi

Signature:

Sample I.D. No.	Type	Type	Type	Date	~~Time~~ Min	Sample Location	Number of Containers	Turn Around/Requirements	Method TO15	Analysis VOC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C042809				4/28/09	1440	Cell Tower	1			X			S-1499
SU-G042809				4/28/09	1440	Campground	1			X			1496
SU-S042809				4/28/09	1440	School	1			X			6385
SU-W042809				4/28/09	1440	Wetland	1			X			6579
SU-COW042809				4/28/09	1440	Co-Located Wetland	1			X			7482

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 5/1/09
FED EX # 8592 3781 2436

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	4/30/09 1500	Ryan Henry	5/1/09 0950				
	4/30/09 0800						

Comments:

Distributor: White - File; Yellow - Lab

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

Canister Samples Chain of Custody Record

H9F-010230

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
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 and 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		Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C042809	4/28/09	1500	1500	-30	-5.5	K423	S-1499	X											
SU-G042809	↓	↓	↓	-30	-4.5	K270	1496	X											
SU-S042809				-29.5	-4.5	K318	6385	X											
SU-W042809				-30	-2.0	K360	6579	X											
SU-COW042809	↓	↓	↓	-30	-4.0	K219	7482	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can # 6621; did not use.

Canisters Shipped by:	Date/Time: 4/30/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 4/30/09 0800	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9F-D10230

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 SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
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: Ryan Henry Date: 5/1/09

QA026R19.doc, 080707

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

May 15, 2009

LABORATORY REPORT

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

Work Order: PSE0016
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 05/01/09

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 13.1°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: PSE0016
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/01/09
Reported: 05/15/09 15:03

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C042809-01H	PSE0016-01	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
C042809-02H	PSE0016-02	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
C042809-03H	PSE0016-03	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
G042809-01H	PSE0016-04	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
G042809-02H	PSE0016-05	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
G042809-03H	PSE0016-06	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
S042809-01H	PSE0016-07	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
S042809-02H	PSE0016-08	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
S042809-03H	PSE0016-09	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
W042809-01H	PSE0016-10	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
W042809-02H	PSE0016-11	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
W042809-03H	PSE0016-12	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
042809A-H	PSE0016-13	04/28/09	Silica Gel tube, 200/400 mg Specially cleaned
C042809-01A	PSE0016-14	04/28/09	DNPH Silica Gel Tube, 450 mg
C042809-02A	PSE0016-15	04/28/09	DNPH Silica Gel Tube, 450 mg
C042809-03A	PSE0016-16	04/28/09	DNPH Silica Gel Tube, 450 mg
G042809-01A	PSE0016-17	04/28/09	DNPH Silica Gel Tube, 450 mg
G042809-02A	PSE0016-18	04/28/09	DNPH Silica Gel Tube, 450 mg
G042809-03A	PSE0016-19	04/28/09	DNPH Silica Gel Tube, 450 mg
S042809-01A	PSE0016-20	04/28/09	DNPH Silica Gel Tube, 450 mg
S042809-02A	PSE0016-21	04/28/09	DNPH Silica Gel Tube, 450 mg
S042809-03A	PSE0016-22	04/28/09	DNPH Silica Gel Tube, 450 mg
W042809-01A	PSE0016-23	04/28/09	DNPH Silica Gel Tube, 450 mg
W042809-02A	PSE0016-24	04/28/09	DNPH Silica Gel Tube, 450 mg
W042809-03A	PSE0016-25	04/28/09	DNPH Silica Gel Tube, 450 mg
042809A-A	PSE0016-26	04/28/09	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: PSE0016 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/01/09 Reported: 05/15/09 15:03	

ANALYTICAL REPORT

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

Sample ID: PSE0016-14 (C042809-01A) — **Tube** — **Sample Air Volume:201.12L** — **Sampled: 04/28/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000149	<0.0000272	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.158	0.000786	0.000436	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0760	0.000378	0.00021	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0822	0.000409	0.000227	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	1.42	0.00706	0.00297	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.711	0.00354	0.00149	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.704	0.0035	0.00147	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000149	<0.0000651	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000149	<0.0000344	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000149	<0.0000506	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000149	<0.000052	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.247	0.00123	0.001	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.105	0.000522	0.000425	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.142	0.000706	0.000575	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.000149	<0.0000364	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000149	<0.0000423	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000149	<0.0000304	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0309	0.000154	0.0000313	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0322	0.00016	0.0000674	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back (e)	0.0322	0.00016	0.0000674	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	<0.0300	<0.000149	<0.0000628	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000149	<0.0000304	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000149	<0.0000423	IH10	5/6/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE0016-15 (C042809-02A) — **Tube** — **Sample Air Volume:167.52L** — **Sampled: 04/28/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000179	<0.0000326	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.155	0.000925	0.000514	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0508	0.000303	0.000168	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.104	0.000621	0.000345	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	2.48	0.0148	0.00623	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.691	0.00412	0.00174	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.79	0.0107	0.0045	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000179	<0.0000781	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000179	<0.0000413	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0391	0.000233	0.0000791	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000179	<0.0000625	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.150	0.000895	0.000729	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0470	0.000281	0.000228	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.103	0.000615	0.000501	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.000179	<0.0000437	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000179	<0.0000508	IH10	5/6/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0016-15 (C042809-02A) - cont.	**Tube**		**Sample Air Volume:167.52L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
m-Tolualdehyde	<0.0300	<0.000179	<0.0000364	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000179	<0.0000364	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000179	<0.0000754	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000179	<0.0000364	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000179	<0.0000508	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-16 (C042809-03A)	**Tube**		**Sample Air Volume:65.4L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000459	<0.0000836	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.98	0.0303	0.0168	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0561	0.000858	0.000476	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.92	0.0294	0.0163	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetone	0.839	0.0128	0.0054	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000459	<0.0002	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.219	0.00335	0.000772	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.530	0.0081	0.00275	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000459	<0.00016	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.628	0.0096	0.00782	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0594	0.000908	0.000739	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.569	0.0087	0.00708	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.798	0.0122	0.00298	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0309	0.000472	0.000134	IH10	5/6/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0390	0.000596	0.000121	IH10	5/6/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0764	0.00117	0.000238	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.260	0.00398	0.00167	IH10	5/6/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000459	<0.0000933	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000459	<0.00013	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-17 (G042809-01A)	**Tube**		**Sample Air Volume:134.4L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000223	<0.0000407	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.82	0.0135	0.00752	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0645	0.00048	0.000266	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.76	0.0131	0.00727	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	2.64	0.0196	0.00827	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.972	0.00723	0.00304	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.67	0.0124	0.00523	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000223	<0.0000973	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.541	0.00403	0.000927	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.483	0.00359	0.00122	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000223	<0.0000779	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.53	0.0114	0.00927	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0630	0.000469	0.000382	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.47	0.0109	0.00891	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.39	0.0103	0.00252	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0016-17 (G042809-01A) - cont.	**Tube**		**Sample Air Volume:134.4L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	<0.0300	<0.000223	<0.0000634	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0494	0.000368	0.0000748	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.128	0.000952	0.000194	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.304	0.00226	0.000952	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000223	<0.0000454	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000223	<0.0000634	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-18 (G042809-02A)	**Tube**		**Sample Air Volume:113.28L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000265	<0.0000483	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.834	0.00736	0.00409	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0535	0.000472	0.000262	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.780	0.00689	0.00382	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	1.94	0.0171	0.00721	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.835	0.00737	0.0031	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.10	0.00971	0.00409	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000265	<0.000115	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.238	0.0021	0.000484	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.201	0.00177	0.000602	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000265	<0.0000924	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.667	0.00589	0.00479	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0388	0.000343	0.000279	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.628	0.00554	0.00451	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.563	0.00497	0.00121	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000265	<0.0000752	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000265	<0.0000539	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0705	0.000622	0.000127	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.139	0.00123	0.000517	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000265	<0.0000539	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000265	<0.0000752	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Sample ID: PSE0016-19 (G042809-03A) **Tube** **Sample Air Volume:145.44L** **Sampled: 04/28/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000206	<0.0000376	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.93	0.0133	0.00737	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0568	0.000391	0.000217	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.87	0.0129	0.00714	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	1.53	0.0105	0.00443	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.388	0.00267	0.00112	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.14	0.00784	0.0033	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000206	<0.00009	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.322	0.00221	0.00051	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.423	0.00291	0.000986	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000206	<0.000072	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.13	0.00777	0.00633	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0578	0.000397	0.000324	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.07	0.00736	0.00599	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.846	0.00582	0.00142	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000206	<0.0000586	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0674	0.000463	0.0000943	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0999	0.000687	0.00014	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.253	0.00174	0.000732	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000206	<0.000042	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000206	<0.0000586	IH10	5/7/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE0016-20 (S042809-01A) **Tube** **Sample Air Volume:120L** **Sampled: 04/28/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00025	<0.0000456	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.85	0.0154	0.00856	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0812	0.000677	0.000376	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.77	0.0148	0.00819	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	0.596	0.00497	0.00209	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00025	<0.000109	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.490	0.00408	0.000941	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.515	0.00429	0.00146	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00025	<0.0000872	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.760	0.00633	0.00516	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0676	0.000563	0.000459	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.692	0.00577	0.0047	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.34	0.0112	0.00273	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00025	<0.000071	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0600	0.0005	0.000102	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.115	0.000958	0.000195	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.307	0.00256	0.00108	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00025	<0.0000509	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.00025	<0.000071	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0016-21 (S042809-02A)	**Tube**		**Sample Air Volume:218.4L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000137	<0.000025	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.10	0.00504	0.0028	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0653	0.000299	0.000166	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.03	0.00472	0.00262	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	0.593	0.00272	0.00114	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000137	<0.0000599	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.474	0.00217	0.0005	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.385	0.00176	0.000598	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000137	<0.0000479	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.675	0.00309	0.00252	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0647	0.000296	0.000241	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.610	0.00279	0.00227	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.899	0.00412	0.001	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000137	<0.000039	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000137	<0.000028	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.105	0.000481	0.0000978	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.197	0.000902	0.00038	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000137	<0.000028	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000137	<0.000039	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-22 (S042809-03A)	**Tube**		**Sample Air Volume:223.68L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000134	<0.0000244	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.03	0.0135	0.00752	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0959	0.000429	0.000238	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.93	0.0131	0.00727	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	2.56	0.0114	0.00482	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.833	0.00372	0.00157	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.73	0.00773	0.00326	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000134	<0.0000585	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.503	0.00225	0.000518	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.605	0.0027	0.000917	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000134	<0.0000468	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.931	0.00416	0.00339	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0607	0.000271	0.000221	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.870	0.00389	0.00317	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.13	0.00505	0.00123	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000134	<0.0000381	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0321	0.000144	0.0000292	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.107	0.000478	0.0000973	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.361	0.00161	0.000679	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000134	<0.0000273	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.263	0.00118	0.000334	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0016-23 (W042809-01A)	**Tube**		**Sample Air Volume:206.4L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000145	<0.0000265	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.74	0.0133	0.00737	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0827	0.000401	0.000222	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.66	0.0129	0.00715	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	1.16	0.00562	0.00237	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.315	0.00153	0.000642	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.848	0.00411	0.00173	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000145	<0.0000634	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.969	0.00469	0.00108	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.813	0.00394	0.00134	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000145	<0.0000507	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.08	0.00523	0.00426	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0670	0.000325	0.000264	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.01	0.00489	0.00398	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.68	0.00814	0.00199	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000145	<0.0000413	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.489	0.00237	0.000482	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.104	0.000504	0.000103	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.437	0.00212	0.000891	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000145	<0.0000296	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000145	<0.0000413	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-24 (W042809-02A)	**Tube**		**Sample Air Volume:209.76L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000143	<0.0000261	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.19	0.00567	0.00315	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0804	0.000383	0.000213	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.11	0.00529	0.00294	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	0.516	0.00246	0.00104	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000143	<0.0000624	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.454	0.00216	0.000499	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde - Back	0.0311	0.000148	0.0000342	IH10	5/6/2009	zn	0.0300	EPA TO-11A
Benzaldehyde - Front	0.423	0.00202	0.000465	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.325	0.00155	0.000525	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000143	<0.0000499	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.547	0.00261	0.00212	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0688	0.000328	0.000267	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.478	0.00228	0.00186	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.620	0.00296	0.000722	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000143	<0.0000406	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000143	<0.0000291	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000143	<0.0000291	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.182	0.000868	0.000365	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000143	<0.0000291	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.156	0.000744	0.000211	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0016-25 (W042809-03A)	**Tube**		**Sample Air Volume:191.52L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000157	<0.0000285	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.79	0.0146	0.00809	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0553	0.000289	0.00016	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.73	0.0143	0.00791	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	0.896	0.00468	0.00197	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000157	<0.0000683	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.624	0.00326	0.000751	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000157	<0.0000531	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000157	<0.0000546	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.797	0.00416	0.00339	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0629	0.000328	0.000267	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.734	0.00383	0.00312	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.976	0.0051	0.00124	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000157	<0.0000445	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000157	<0.0000319	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000157	<0.0000319	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.313	0.00163	0.000688	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000157	<0.0000319	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.289	0.00151	0.000428	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0016-26 (042809A-A)	**Tube**		**Sample Air Volume:L**				**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.115	--	--	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0469	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0678	--	--	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Acetone	2.79	--	--	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.946	--	--	IH10	5/6/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.84	--	--	IH10	5/7/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.104	--	--	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0381	--	--	IH11	5/6/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0661	--	--	IH11	5/7/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/7/2009	zn	0.0300	EPA TO-11A

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

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSE0016-01 (C042809-01H)	**Tube**		**Sample Air Volume:141.12L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0135	<0.00903		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0155	<0.019		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-02 (C042809-02H)	**Tube**		**Sample Air Volume:144.48L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0132	<0.00882		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0152	<0.0185		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-03 (C042809-03H)	**Tube**		**Sample Air Volume:43.95L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0432	<0.029		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0498	<0.0609		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-04 (G042809-01H)	**Tube**		**Sample Air Volume:104.64L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0182	<0.0122		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0209	<0.0256		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-05 (G042809-02H)	**Tube**		**Sample Air Volume:101.76L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0187	<0.0125		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0215	<0.0263		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-06 (G042809-03H)	**Tube**		**Sample Air Volume:101.76L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0187	<0.0125		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0215	<0.0263		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-07 (S042809-01H)	**Tube**		**Sample Air Volume:140.64L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0135	<0.00906		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0156	<0.019		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-08 (S042809-02H)	**Tube**		**Sample Air Volume:172.32L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.011	<0.00739		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0127	<0.0155		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-09 (S042809-03H)	**Tube**		**Sample Air Volume:153.6L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.0124	<0.0083		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0143	<0.0174		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-10 (W042809-01H)	**Tube**		**Sample Air Volume:135.36L**				**Sampled: 04/28/09**	
Hydrochloric Acid	<1.90	<0.014	<0.00941		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0162	<0.0198		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-11 (W042809-02H)	**Tube**		**Sample Air Volume:143.04L**				**Sampled: 04/28/09**	

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Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Inorganic Acids by NIOSH 7903 (Modified) - cont.								
Sample ID: PSE0016-11 (W042809-02H) - cont.		**Tube**		**Sample Air Volume:143.04L**			**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0133	<0.00891		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0153	<0.0187		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-12 (W042809-03H)		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0152	<0.0102		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0175	<0.0214		5/9/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0016-13 (042809A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 04/28/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	--	--		5/9/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	--	--		5/9/2009	ss	2.19	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)						
P9E0519-BLK1						
Formaldehyde	0.1167		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Formaldehyde - Back	0.06307		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acetaldehyde	0.07380		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acetaldehyde - Back	0.05289		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acrolein	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acrolein - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acetone	<0.300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Acetone - Back	<0.300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Propionaldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Crotonaldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Butyraldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Benzaldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Isovaleraldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Valeraldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
o-Tolualdehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
m-Tolualdehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
p-Tolualdehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Hexaldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9E0519	P9E0519-BLK1	05-06-2009
Inorganic Acids by NIOSH 7903 (Modified)						
P9E0834-BLK1						
Hydrochloric Acid	<1.90	IH10	ug, Total	P9E0834	P9E0834-BLK1	05-09-2009
Hydrochloric Acid - Back	<1.90	IH10	ug, Total	P9E0834	P9E0834-BLK1	05-09-2009
Hydrofluoric Acid	<2.19	IH10	ug, Total	P9E0834	P9E0834-BLK1	05-09-2009
Hydrofluoric Acid - Back	<2.19	IH10	ug, Total	P9E0834	P9E0834-BLK1	05-09-2009

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

Work Order: PSE0016
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/01/09
Reported: 05/15/09 15:03

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9E0519-DUP1									
Formaldehyde	0.1420	0.1410	IH11	ug, Total	0.707	10	P9E0519	PSE0016-14	05-06-2009
Acetaldehyde	0.08220	0.08280	IH11	ug, Total	0.727	10	P9E0519	PSE0016-14	05-06-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Acetone	0.7040	0.7026	IH10	ug, Total	0.199	10	P9E0519	PSE0016-14	05-06-2009
Propionaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Valeraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
o-Tolualdehyde	0.03090	0.03852	IH10	ug, Total	22	10	P9E0519	PSE0016-14	05-06-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
Hexaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-14	05-06-2009
P9E0519-DUP2									
Formaldehyde	0.4780	0.4773	IH11	ug, Total	0.147	10	P9E0519	PSE0016-24	05-07-2009
Acetaldehyde	1.110	1.115	IH11	ug, Total	0.449	10	P9E0519	PSE0016-24	05-07-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
Acetone	0.5160	0.5154	IH10	ug, Total	0.116	10	P9E0519	PSE0016-24	05-07-2009
Propionaldehyde	0.1820	0.1831	IH10	ug, Total	0.603	10	P9E0519	PSE0016-24	05-07-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
Butyraldehyde	0.3250	0.3390	IH10	ug, Total	4.22	10	P9E0519	PSE0016-24	05-07-2009
Benzaldehyde	0.4230	0.4384	IH10	ug, Total	3.58	10	P9E0519	PSE0016-24	05-07-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
Valeraldehyde	0.1560	0.1722	IH10	ug, Total	9.87	10	P9E0519	PSE0016-24	05-07-2009
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009
Hexaldehyde	0.6200	0.6641	IH10	ug, Total	6.87	10	P9E0519	PSE0016-24	05-07-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E0519	PSE0016-24	05-07-2009

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E0519-BS1								
Formaldehyde	0.45	0.5129	IH11	ug, Total	114%	22-134	P9E0519	05-06-2009
Acetaldehyde	0.45	0.4883	IH11	ug, Total	109%	51-142	P9E0519	05-06-2009
Acrolein	0.45	0.1896	IH10, L2	ug, Total	42%	75-125	P9E0519	05-06-2009
Acetone	0.45	0.5985	IH10, IH5	ug, Total	133%	75-125	P9E0519	05-06-2009

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E0519-BS1								
Propionaldehyde	0.45	0.6992	IH10, L1	ug, Total	155%	67-145	P9E0519	05-06-2009
Crotonaldehyde	0.45	0.3435	IH10	ug, Total	76%	66-146	P9E0519	05-06-2009
Butyraldehyde	0.45	0.4794	IH10	ug, Total	107%	56-141	P9E0519	05-06-2009
Benzaldehyde	0.45	0.5532	IH10	ug, Total	123%	57-142	P9E0519	05-06-2009
Isovaleraldehyde	0.45	0.4400	IH10	ug, Total	98%	66-144	P9E0519	05-06-2009
Valeraldehyde	0.45	0.4616	IH10	ug, Total	103%	66-144	P9E0519	05-06-2009
o-Tolualdehyde	0.45	0.4573	IH10	ug, Total	102%	39-130	P9E0519	05-06-2009
m-Tolualdehyde	0.45	0.4304	IH10	ug, Total	96%	73-143	P9E0519	05-06-2009
p-Tolualdehyde	0.45	0.4201	IH10	ug, Total	93%	66-147	P9E0519	05-06-2009
Hexaldehyde	0.45	0.4791	IH10	ug, Total	106%	65-145	P9E0519	05-06-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4263	IH10	ug, Total	95%	75-144	P9E0519	05-06-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9E0834-BS1								
Hydrochloric Acid	10.3	8.758	IH10	ug, Total	85%	70-130	P9E0834	05-09-2009
Hydrofluoric Acid	10.6	10.24	IH10	ug, Total	97%	70-130	P9E0834	05-09-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9E0519-BSD1												
Formaldehyde		0.5304	IH11	ug, Total	0.45	118%	22-134	3.35	20	P9E0519		05-06-2009
Acetaldehyde		0.5118	IH11	ug, Total	0.45	114%	51-142	4.7	20	P9E0519		05-06-2009
Acrolein		0.1943	IH10, L2	ug, Total	0.45	43%	75-125	2.45	20	P9E0519		05-06-2009
Acetone		0.6181	IH10,	ug, Total	0.45	137%	75-125	3.22	20	P9E0519		05-06-2009
Propionaldehyde		0.7495	IH10, L1	ug, Total	0.45	167%	67-145	6.94	20	P9E0519		05-06-2009
Crotonaldehyde		0.3610	IH10	ug, Total	0.45	80%	66-146	4.97	20	P9E0519		05-06-2009
Butyraldehyde		0.5129	IH10	ug, Total	0.45	114%	56-141	6.75	20	P9E0519		05-06-2009
Benzaldehyde		0.4515	IH10	ug, Total	0.45	100%	57-142	20.2	20	P9E0519		05-06-2009
Isovaleraldehyde		0.4577	IH10	ug, Total	0.45	102%	66-144	3.94	20	P9E0519		05-06-2009
Valeraldehyde		0.4771	IH10	ug, Total	0.45	106%	66-144	3.3	20	P9E0519		05-06-2009
o-Tolualdehyde		0.4753	IH10	ug, Total	0.45	106%	39-130	3.86	20	P9E0519		05-06-2009
m-Tolualdehyde		0.4539	IH10	ug, Total	0.45	101%	73-143	5.31	20	P9E0519		05-06-2009
p-Tolualdehyde		0.4402	IH10	ug, Total	0.45	98%	66-147	4.67	20	P9E0519		05-06-2009
Hexaldehyde		0.4815	IH10	ug, Total	0.45	107%	65-145	0.5	20	P9E0519		05-06-2009
2,5-Dimethyl Benzaldehyde		0.4503	IH10	ug, Total	0.45	100%	75-144	5.48	20	P9E0519		05-06-2009
Inorganic Acids by NIOSH 7903 (Modified)												
P9E0834-BSD1												
Hydrochloric Acid		9.000	IH10	ug, Total	10.3	87%	70-130	2.73	30	P9E0834		05-09-2009
Hydrofluoric Acid		10.14	IH10	ug, Total	10.6	96%	70-130	0.981	30	P9E0834		05-09-2009

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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 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, 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).

IH5 The associated blank media spike recovery was above laboratory acceptance limits, because of background interference present in the media or solvent that was below the reporting limit, but high enough to have an effect on the recovery of the spikes.

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

L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.

ADDITIONAL COMMENTS

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 12, 2009

APPENDIX C. Laboratory Analytical Results from Event #119:
Sampling conducted Monday May 4 to Tuesday May 5

Test America Laboratories: EPA Method TO-15; EPA Method TO-11A; NIOSH 7903

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H9E120260

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 21, 2009

ANALYTICAL METHODS SUMMARY

H9E120260

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

H9E120260

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LCVM8	001	SU-C050409	05/04/09	
LCVND	002	SU-G050409	05/04/09	
LCVNE	003	SU-S050409	05/04/09	
LCVNG	004	SU-W050409	05/04/09	
LCVNH	005	SU-COC050409	05/04/09	

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
H9E120260

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 05/13/09 exhibited a %difference of >30% but ≤40% for chloromethane and vinyl chloride. The calibration verification analyzed on 05/14/09 exhibited a %difference of >30% but ≤40% for 3-chloropropene and 1,2,4-trichlorobenzene.

The surrogate recoveries for batch 9134161 were quantified using the daily calibration verification standard.

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-C050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 001 **Work Order #** LCVM81AA **Matrix.....:** AIR

Date Sampled...: 05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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	**4.3**	**5.0**	**10**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.26**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.14**	**0.50**	**0.58**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.79**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.071**	**2.0**	**0.22**	**J**	**6.1**
Methylene chloride	**2.6**	**0.50**	**9.0**	**B**	**1.7**
Benzene	**0.13**	**0.20**	**0.43**	**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	**0.24**	**0.20**	**0.92**		**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	**0.078**	**0.20**	**0.60**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.074**	**0.20**	**0.36**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.068**	**0.20**	**0.30**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.73**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.44**	**1.0**	**1.3**	**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	**0.10**	**0.20**	**0.64**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 001 **Work Order #** LCVM81AA **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	**0.88**	**0.50**	**1.8**		**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	**0.098**	**0.20**	**0.59**	**J**	**1.2**
Dichlorodifluoromethane	**0.53**	**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	106	70 - 130

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-G050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 002 **Work Order #** LCVND1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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	**3.6**	**5.0**	**8.4**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.16**	**0.50**	**0.67**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.21**	**0.50**	**0.75**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.070**	**2.0**	**0.21**	**J**	**6.1**
Methylene chloride	**1.8**	**0.50**	**6.3**	**B**	**1.7**
Benzene	**0.13**	**0.20**	**0.43**	**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	**0.23**	**0.20**	**0.88**		**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	**0.083**	**0.20**	**0.41**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.065**	**0.20**	**0.28**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.76**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.48**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.11**	**0.20**	**0.67**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 002 **Work Order #** LCVND1AA **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	**0.89**	**0.50**	**1.8**	**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**	**2.7**	**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	70 - 130

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-S050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 003 **Work Order #** LCVNE1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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	**11**	**5.0**	**27**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.42**	**0.50**	**1.7**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.21**	**0.50**	**0.75**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.044**	**0.50**	**0.21**	**J**	**2.3**
tert-Butyl alcohol	**0.19**	**2.0**	**0.58**	**J**	**6.1**
Methylene chloride	**1.6**	**0.50**	**5.4**	**B**	**1.7**
Benzene	**0.18**	**0.20**	**0.57**	**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	**0.33**	**0.20**	**1.2**		**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	**0.094**	**0.20**	**0.46**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.096**	**0.20**	**0.42**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.26**	**0.20**	**1.1**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.0**	**1.0**	**6.0**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.13**	**0.50**	**0.52**	**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	ND	0.40	ND		2.0
Carbon disulfide	**0.036**	**0.50**	**0.11**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.67**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 003 **Work Order #** LCVNE1AA **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	**0.78**	**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	**0.54**	**0.20**	**2.7**	**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	70 - 130

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-W050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 004 **Work Order #** LCVNG1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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	**5.5**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.26**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.21**	**0.50**	**0.87**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.81**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.083**	**2.0**	**0.25**	**J**	**6.1**
Methylene chloride	**1.1**	**0.50**	**3.7**	**B**	**1.7**
Benzene	**0.15**	**0.20**	**0.49**	**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	**0.081**	**1.0**	**0.24**	**J**	**2.9**
Toluene	**0.29**	**0.20**	**1.1**		**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	**0.074**	**0.20**	**0.56**	**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	**0.12**	**0.20**	**0.53**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.76**	**1.0**	**2.2**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.058**	**0.50**	**0.24**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.11**	**0.20**	**0.70**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 004 **Work Order #** LCVNG1AA **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	**0.95**	**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	**0.58**	**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	110	70 - 130

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-COC050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 005 **Work Order #** LCVNH1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009
Prep Batch #.....: 9138490
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	**12**	**5.0**	**29**		**12**
Ethylbenzene	**0.11**	**0.20**	**0.49**	**J**	**0.87**
Trichlorofluoromethane	**0.26**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.18**	**0.50**	**0.74**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.25**	**0.50**	**0.90**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.044**	**0.50**	**0.21**	**J**	**2.3**
tert-Butyl alcohol	**0.16**	**2.0**	**0.49**	**J**	**6.1**
Methylene chloride	**2.1**	**0.50**	**7.4**	**B**	**1.7**
Benzene	**0.19**	**0.20**	**0.61**	**J**	**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.041**	**0.20**	**0.28**	**J**	**1.4**
Tetrahydrofuran	ND	1.0	ND		2.9
Toluene	**0.49**	**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	**0.073**	**0.20**	**0.56**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.45**	**0.20**	**2.2**		**0.98**
1,3,5-Trimethylbenzene	**0.11**	**0.20**	**0.55**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.19**	**0.20**	**0.83**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.44**	**0.20**	**1.9**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.74**	**1.0**	**2.2**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.062**	**0.50**	**0.25**	**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	**0.14**	**0.40**	**0.69**	**J**	**2.0**
Carbon disulfide	**0.14**	**0.50**	**0.43**	**J**	**1.6**
Carbon tetrachloride	**0.13**	**0.20**	**0.81**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COC050409

GC/MS Volatiles

Lot-Sample # H9E120260 - 005 **Work Order #** LCVNH1AA **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	**0.14**	**0.20**	**0.36**	**J**	**0.53**
Chloroform	**0.43**	**0.20**	**2.1**		**0.98**
Chloromethane	**1.6**	**0.50**	**3.2**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.072**	**0.50**	**0.25**	**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	**0.57**	**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	106	70 - 130

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 # H9E140000 - 162B **Work Order #** LC1HJ1AA **Matrix.....:** AIR

05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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	**0.050**	**0.50**	**0.17**	**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 # H9E140000 - 162B **Work Order #** LC1HJ1AA **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	115	70 - 130

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 # H9E140000 - 162C **Work Order #** LC1HJ1AC **Matrix.....:** AIR

05/04/2009 **Date Received..:** 05/12/2009
Prep Date.....: 05/13/2009 **Analysis Date...** 05/13/2009
Prep Batch #.....: 9134162
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
Benzene	1.00	0.762	3.2	2.4	76	70 - 130
Toluene	1.00	0.750	3.8	2.8	75	70 - 130
Trichloroethene	1.00	0.976	5.4	5.2	98	70 - 130
Chlorobenzene	1.00	0.748	4.6	3.4	75	70 - 130
1,1-Dichloroethene	1.00	0.826	4.0	3.3	83	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9E180000 - 490B **Work Order #** LC9LJ1AA **Matrix.....:** AIR

	05/12/2009	**Date Received..:**	05/13/2009
Prep Date.....:	05/14/2009	**Analysis Date...**	05/14/2009
Prep Batch #.....:	9138490		
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	**0.13**	**0.50**	**0.46**	**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 # H9E180000 - 490B **Work Order #** LC9LJ1AA **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	93	70 - 130

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 # H9E180000 - 490C **Work Order #** LC9LJ1AC **Matrix.....:** AIR

05/12/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009
Prep Batch #.....: 9138490
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
Benzene	12.5	8.85	40	28	71	70 - 130
Toluene	12.5	10.6	47	40	84	70 - 130
Trichloroethene	12.5	8.77	67	47	70	70 - 130
Chlorobenzene	12.5	9.90	58	46	79	70 - 130
1,1-Dichloroethene	12.5	11.7	50	46	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	70 - 130

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.

975 ~~929~~ 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~~

1795-120260

№ 8449

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8592 3781 2469
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): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis: VOC (Method TO-15)	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C05/04/09				5/4/09	1440	Cell Tower	1		X			6630
SU-G05/04/09				5/4/09	1440	Campground	1		X			6388
SU-S05/04/09				5/4/09	1440	School	1		X			1487
SU-W05/04/09				5/4/09	1440	Wetland	1		X			92026
SU-CO05/04/09				5/4/09	1440	Co-Located School	1		X			04392

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
BKD 5-12-09
1 BOX FEDX#
8592 3781 2469

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5/11/09 1500						
[signature]	5/7/09 1500	[signature]	5-12-09 10:00				

Comments:

Distributor: White - File; Yellow - Lab

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

1T9E120260

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)
SU-C050409	5/4/09	15:00	15:00	-29.0	-4.5	K315	6630	X											
SU-G050409	↓	↓	↓	-29.0	-1.0	K184	6388	X											
SU-S050409				-29.5	-5.0	K394	1487	X											
SU-W050409				-29.5	-6.5	K172	92026	X											
SU-COC050409	↓	↓	↓	-29	-5.0	K278	04392	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can #12266, did not use.

Canisters Shipped by: [signature]	Date/Time: 5/11/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by: [signature] 5-12-09 10:00
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** HGE120260

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 SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
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: 5-12-19

QA026R19.doc, 080707

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May 27, 2009

LABORATORY REPORT

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

Work Order: PSE0615
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 05/12/09

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 15.1°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: PSE0615
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/12/09
Reported: 05/27/09 10:47

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C050409-01A	PSE0615-01	05/04/09	DNPH Silica Gel Tube, 450 mg
C050409-02A	PSE0615-02	05/04/09	DNPH Silica Gel Tube, 450 mg
C050409-03A	PSE0615-03	05/04/09	DNPH Silica Gel Tube, 450 mg
G050409-01A	PSE0615-04	05/04/09	DNPH Silica Gel Tube, 450 mg
G050409-02A	PSE0615-05	05/04/09	DNPH Silica Gel Tube, 450 mg
G050409-03A	PSE0615-06	05/04/09	DNPH Silica Gel Tube, 450 mg
S050409-01A	PSE0615-07	05/04/09	DNPH Silica Gel Tube, 450 mg
S050409-02A	PSE0615-08	05/04/09	DNPH Silica Gel Tube, 450 mg
S050409-03A	PSE0615-09	05/04/09	DNPH Silica Gel Tube, 450 mg
W050409-01A	PSE0615-10	05/04/09	DNPH Silica Gel Tube, 450 mg
W050409-02A	PSE0615-11	05/04/09	DNPH Silica Gel Tube, 450 mg
W050409-03A	PSE0615-12	05/04/09	DNPH Silica Gel Tube, 450 mg
050409A-A (Field Blank)	PSE0615-13	05/04/09	DNPH Silica Gel Tube, 450 mg
C050409-01H	PSE0615-14	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
C050409-02H	PSE0615-15	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
C050409-03H	PSE0615-16	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
G050409-01H	PSE0615-17	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
G050409-02H	PSE0615-18	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
G050409-03H	PSE0615-19	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
S050409-01H	PSE0615-20	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
S050409-02H	PSE0615-21	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
S050409-03H	PSE0615-22	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
W050409-01H	PSE0615-23	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
W050409-02H	PSE0615-24	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
W050409-03H	PSE0615-25	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned
050409A-H (Field Blank)	PSE0615-26	05/04/09	Silica Gel tube, 200/400 mg Specially cleaned

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0615 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/12/09 Reported: 05/27/09 10:47	

ANALYTICAL REPORT

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Aldehydes and Ketones by EPA TO-11A (Modified)								
Sample ID: PSE0615-01 (C050409-01A)		**Tube**		**Sample Air Volume:202.56L**				**Sampled: 05/04/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000148	<0.000027	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.34	0.0214	0.0119	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0818	0.000404	0.000224	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.26	0.021	0.0117	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	2.02	0.00997	0.0042	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.455	0.00225	0.000946	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.56	0.0077	0.00324	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000148	<0.0000646	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.790	0.0039	0.000899	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000148	<0.0000502	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000148	<0.0000517	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.56	0.0077	0.00627	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0687	0.000339	0.000276	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.49	0.00736	0.00599	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.17	0.0107	0.00262	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000148	<0.000042	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000148	<0.0000301	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000148	<0.0000301	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.540	0.00267	0.00112	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000148	<0.0000301	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.513	0.00253	0.000719	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-02 (C050409-02A)		**Tube**		**Sample Air Volume:166.08L**				**Sampled: 05/04/09**
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000181	<0.0000329	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.34	0.00807	0.00448	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0780	0.00047	0.000261	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.26	0.00759	0.00421	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	0.625	0.00376	0.00158	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000181	<0.0000788	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.328	0.00197	0.000455	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.294	0.00177	0.0006	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000181	<0.000063	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.633	0.00381	0.0031	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0666	0.000401	0.000326	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.566	0.00341	0.00277	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.811	0.00488	0.00119	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000181	<0.0000513	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000181	<0.0000368	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000181	<0.0000368	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.196	0.00118	0.000497	IH10	5/16/2009	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: PSE0615 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/12/09 Reported: 05/27/09 10:47	

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Aldehydes and Ketones by EPA TO-11A (Modified) - cont.								
Sample ID: PSE0615-02 (C050409-02A) - cont.	**Tube**		**Sample Air Volume:166.08L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
p-Tolualdehyde	<0.0300	<0.000181	<0.0000368	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.167	0.00101	0.000285	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-03 (C050409-03A)	**Tube**		**Sample Air Volume:209.28L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000143	<0.0000261	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.23	0.0202	0.0112	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0757	0.000362	0.000201	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.15	0.0198	0.011	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	1.63	0.00779	0.00328	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.352	0.00168	0.000708	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.28	0.00612	0.00257	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000143	<0.0000625	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.547	0.00261	0.000602	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000143	<0.0000486	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	0.0661	0.000316	0.00011	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.10	0.00526	0.00428	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0649	0.00031	0.000252	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.04	0.00497	0.00405	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.34	0.0064	0.00156	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000143	<0.0000407	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000143	<0.0000292	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000143	<0.0000292	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.462	0.00221	0.000929	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000143	<0.0000292	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.377	0.0018	0.000511	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-04 (G050409-01A)	**Tube**		**Sample Air Volume:133.44L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000225	<0.000041	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.06	0.0304	0.0169	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0736	0.000552	0.000306	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.99	0.0299	0.0166	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	1.71	0.0128	0.00539	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000225	<0.000098	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.487	0.00365	0.000841	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000225	<0.0000762	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000225	<0.0000784	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	2.17	0.0163	0.0132	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0442	0.000331	0.00027	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.13	0.016	0.013	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.94	0.0145	0.00355	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000225	<0.0000638	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000225	<0.0000457	IH10	5/16/2009	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: PSE0615 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/12/09 Reported: 05/27/09 10:47	

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0615-04 (G050409-01A) - cont.	**Tube**		**Sample Air Volume:133.44L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
o-Tolualdehyde	<0.0300	<0.000225	<0.0000457	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.511	0.00383	0.00161	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000225	<0.0000457	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.588	0.00441	0.00125	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-05 (G050409-02A)	**Tube**		**Sample Air Volume:110.4L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000272	<0.0000495	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.18	0.0197	0.011	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0654	0.000592	0.000329	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.11	0.0191	0.0106	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	0.903	0.00818	0.00344	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000272	<0.000119	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.599	0.00543	0.00125	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde - Back (e)	0.282	0.00255	0.000589	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde - Front	0.317	0.00287	0.000662	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000272	<0.0000921	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000272	<0.0000948	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.38	0.0125	0.0102	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0444	0.000402	0.000327	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.34	0.0121	0.00988	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.963	0.00872	0.00213	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000272	<0.0000771	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000272	<0.0000553	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000272	<0.0000553	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.310	0.00281	0.00118	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000272	<0.0000553	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.356	0.00322	0.000915	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-06 (G050409-03A)	**Tube**		**Sample Air Volume:144L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000208	<0.000038	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.08	0.0283	0.0157	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0882	0.000613	0.00034	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.99	0.0277	0.0154	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	1.91	0.0133	0.00558	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.356	0.00247	0.00104	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.55	0.0108	0.00453	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000208	<0.0000909	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.345	0.0024	0.000552	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.659	0.00458	0.00155	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000208	<0.0000727	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.72	0.0119	0.00972	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0576	0.0004	0.000326	IH11	5/16/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0615-06 (G050409-03A) - cont.	**Tube**		**Sample Air Volume:144L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Formaldehyde - Front	1.66	0.0115	0.00939	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.13	0.00785	0.00192	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000208	<0.0000591	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000208	<0.0000424	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000208	<0.0000424	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.452	0.00314	0.00132	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000208	<0.0000424	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.347	0.00241	0.000684	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-07 (S050409-01A)	**Tube**		**Sample Air Volume:117.6L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000255	<0.0000465	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.06	0.0345	0.0192	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0819	0.000696	0.000387	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.98	0.0338	0.0188	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	1.33	0.0113	0.00476	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000255	<0.000111	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.445	0.00378	0.000872	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000255	<0.0000865	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000255	<0.000089	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.50	0.0128	0.0104	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0695	0.000591	0.000481	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.43	0.0122	0.0099	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.85	0.0157	0.00384	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000255	<0.0000724	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.440	0.00374	0.00158	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000255	<0.0000519	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.428	0.00364	0.00103	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-08 (S050409-02A)	**Tube**		**Sample Air Volume:215.04L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00014	<0.0000254	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.47	0.00684	0.00379	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0811	0.000377	0.000209	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.39	0.00646	0.00359	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	0.815	0.00379	0.0016	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00014	<0.0000608	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.373	0.00173	0.0004	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.300	0.0014	0.000473	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.00014	<0.0000487	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.713	0.00332	0.0027	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0689	0.00032	0.000261	IH11	5/16/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0615-08 (S050409-02A) - cont.	**Tube**		**Sample Air Volume:215.04L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Formaldehyde - Front	0.644	0.00299	0.00244	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.749	0.00348	0.00085	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0677	0.000315	0.0000894	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.00014	<0.0000284	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.00014	<0.0000284	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.213	0.000991	0.000417	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00014	<0.0000284	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.145	0.000674	0.000191	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-09 (S050409-03A)	**Tube**		**Sample Air Volume:224.64L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000134	<0.0000243	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.74	0.0211	0.0117	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0762	0.000339	0.000188	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.66	0.0207	0.0115	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetone	1.40	0.00623	0.00262	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000134	<0.0000582	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.628	0.0028	0.000644	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000134	<0.0000453	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000134	<0.0000466	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.42	0.00632	0.00515	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0632	0.000281	0.000229	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.36	0.00605	0.00493	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.65	0.00735	0.00179	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000134	<0.0000379	IH10	5/16/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000134	<0.0000272	IH10	5/16/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000134	<0.0000272	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000134	<0.0000562	IH10	5/16/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000134	<0.0000272	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.405	0.0018	0.000512	IH10	5/16/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-10 (W050409-01A)	**Tube**		**Sample Air Volume:200.64L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.00015	<0.0000272	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.87	0.0293	0.0162	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0767	0.000382	0.000212	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.79	0.0289	0.016	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetone	2.32	0.0116	0.00487	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.436	0.00217	0.000915	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.88	0.00937	0.00394	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.00015	<0.0000652	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.745	0.00371	0.000856	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.00015	<0.0000507	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	0.0699	0.000348	0.000122	IH10	5/17/2009	zn	0.0300	EPA TO-11A

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

Sample ID: PSE0615-10 (W050409-01A) - cont. | **Tube** | **Sample Air Volume:200.64L** | **Sampled: 05/04/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Formaldehyde	1.68	0.00837	0.00682	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0600	0.000299	0.000243	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.62	0.00807	0.00657	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.36	0.0118	0.00287	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.00015	<0.0000424	IH10	5/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.00015	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.00015	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.606	0.00302	0.00127	IH10	5/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.00015	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.555	0.00277	0.000785	IH10	5/17/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE0615-11 (W050409-02A) | **Tube** | **Sample Air Volume:201.12L** | **Sampled: 05/04/09**

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000149	<0.0000272	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.58	0.00786	0.00436	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0725	0.00036	0.0002	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.51	0.00751	0.00417	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.26	0.00626	0.00264	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.346	0.00172	0.000724	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.913	0.00454	0.00191	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000149	<0.0000651	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.419	0.00208	0.00048	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.338	0.00168	0.00057	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000149	<0.000052	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.645	0.00321	0.00261	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0639	0.000318	0.000259	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.581	0.00289	0.00235	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.814	0.00405	0.000988	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000149	<0.0000423	IH10	5/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000149	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000149	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.212	0.00105	0.000444	IH10	5/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000149	<0.0000304	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000149	<0.0000423	IH10	5/17/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0615-12 (W050409-03A)	**Tube**		**Sample Air Volume:184.32L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000163	<0.0000297	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.74	0.0257	0.0143	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0853	0.000463	0.000257	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.65	0.0252	0.014	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetone	1.22	0.00662	0.00279	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000163	<0.000071	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.509	0.00276	0.000636	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000163	<0.0000552	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000163	<0.0000568	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.12	0.00608	0.00495	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0649	0.000352	0.000287	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.06	0.00575	0.00468	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.20	0.00651	0.00159	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000163	<0.0000462	IH10	5/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000163	<0.0000331	IH10	5/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000163	<0.0000331	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.440	0.00239	0.001	IH10	5/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000163	<0.0000331	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.346	0.00188	0.000533	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0615-13 (050409A-A (Field Blank))	**Tube**		**Sample Air Volume:L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.132	--	--	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0608	--	--	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0707	--	--	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Acetone	0.425	--	--	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.425	--	--	IH10	5/16/2009	zn	0.300	EPA TO-11A
Acetone - Front	<0.300	--	--	IH10	5/17/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.141	--	--	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0449	--	--	IH11	5/16/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0961	--	--	IH11	5/17/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/17/2009	zn	0.0300	EPA TO-11A

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

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0615-14 (C050409-01H)	**Tube**		**Sample Air Volume:140.16L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0132	<0.00885		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.015	<0.0183		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-15 (C050409-02H)	**Tube**		**Sample Air Volume:147.36L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0126	<0.00842		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0143	<0.0174		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-16 (C050409-03H)	**Tube**		**Sample Air Volume:142.56L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.013	<0.0087		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0147	<0.018		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-17 (G050409-01H)	**Tube**		**Sample Air Volume:109.92L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0168	<0.0113		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0191	<0.0233		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-18 (G050409-02H)	**Tube**		**Sample Air Volume:103.2L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0179	<0.012		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0203	<0.0249		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-19 (G050409-03H)	**Tube**		**Sample Air Volume:103.2L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0179	<0.012		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0203	<0.0249		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-20 (S050409-01H)	**Tube**		**Sample Air Volume:143.04L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0129	<0.00867		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0147	<0.0179		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-21 (S050409-02H)	**Tube**		**Sample Air Volume:179.52L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.0103	<0.00691		5/21/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0117	<0.0143		5/21/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-22 (S050409-03H)	**Tube**		**Sample Air Volume:154.56L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.85	<0.012	<0.00803		5/22/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0136	<0.0166		5/22/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-23 (W050409-01H)	**Tube**		**Sample Air Volume:138.72L**				**Sampled: 05/04/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	2.64	0.019	0.0128		5/22/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrochloric Acid - Back (e)	2.64	0.019	0.0128	IH10	5/21/2009	ss	1.90	NIOSH 7903 (MOD)

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSE0615-23 (W050409-01H) - cont.		**Tube**		**Sample Air Volume:138.72L**			**Sampled: 05/04/09**	
Hydrochloric Acid - Front	<1.85	<0.0133	<0.00894	IH10	5/22/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0151	<0.0185		5/22/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-24 (W050409-02H)		**Tube**		**Sample Air Volume:140.64L**			**Sampled: 05/04/09**	
Hydrochloric Acid	<1.85	<0.0132	<0.00882		5/24/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.0149	<0.0182		5/24/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-25 (W050409-03H)		**Tube**		**Sample Air Volume:131.04L**			**Sampled: 05/04/09**	
Hydrochloric Acid	<1.85	<0.0141	<0.00947		5/22/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	<0.016	<0.0196		5/22/2009	ss	2.10	NIOSH 7903 (MOD)
Sample ID: PSE0615-26 (050409A-H (Field Blank))		**Tube**		**Sample Air Volume:L**			**Sampled: 05/04/09**	
Hydrochloric Acid	<1.85	--	--		5/22/2009	ss	1.85	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.10	--	--		5/22/2009	ss	2.10	NIOSH 7903 (MOD)

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

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)						
P9E1532-BLK1						
Formaldehyde	0.1106		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Formaldehyde - Back	0.06128		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acetaldehyde	0.08569		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acetaldehyde - Back	0.06170		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acrolein	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acrolein - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acetone	<0.300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Acetone - Back	<0.300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Propionaldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Crotonaldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Butyraldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Benzaldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Isovaleraldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Valeraldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
o-Tolualdehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
m-Tolualdehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
p-Tolualdehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Hexaldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9E1532	P9E1532-BLK1	05-16-2009
Inorganic Acids by NIOSH 7903 (Modified)						
P9E2245-BLK1						
Hydrochloric Acid	<1.90		ug, Total	P9E2245	P9E2245-BLK1	05-21-2009
Hydrochloric Acid - Back	<1.90		ug, Total	P9E2245	P9E2245-BLK1	05-21-2009
Hydrofluoric Acid	<2.19		ug, Total	P9E2245	P9E2245-BLK1	05-21-2009
Hydrofluoric Acid - Back	<2.19		ug, Total	P9E2245	P9E2245-BLK1	05-21-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)						

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9E1532-DUP1									
Formaldehyde	1.490	1.495	IH11	ug, Total	0.335	10	P9E1532	PSE0615-01	05-16-2009
Acetaldehyde	4.260	4.252	IH11	ug, Total	0.188	10	P9E1532	PSE0615-01	05-16-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
Acetone	1.560	1.550	IH10	ug, Total	0.643	10	P9E1532	PSE0615-01	05-16-2009
Propionaldehyde	0.5400	0.5387	IH10	ug, Total	0.241	10	P9E1532	PSE0615-01	05-16-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
Benzaldehyde	0.7900	0.7855	IH10	ug, Total	0.571	10	P9E1532	PSE0615-01	05-16-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
Valeraldehyde	0.5130	0.5041	IH10	ug, Total	1.75	10	P9E1532	PSE0615-01	05-16-2009
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
Hexaldehyde	2.170	2.152	IH10	ug, Total	0.833	10	P9E1532	PSE0615-01	05-16-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-01	05-16-2009
P9E1532-DUP2									
Formaldehyde	0.5810	0.5532	IH11	ug, Total	4.9	10	P9E1532	PSE0615-11	05-17-2009
Acetaldehyde	1.510	1.496	IH11	ug, Total	0.931	10	P9E1532	PSE0615-11	05-17-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
Acetone	0.9130	0.9004	IH10	ug, Total	1.39	10	P9E1532	PSE0615-11	05-17-2009
Propionaldehyde	0.2120	0.2082	IH10	ug, Total	1.81	10	P9E1532	PSE0615-11	05-17-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
Butyraldehyde	0.3380	0.3311	IH10	ug, Total	2.06	10	P9E1532	PSE0615-11	05-17-2009
Benzaldehyde	0.4190	0.4095	IH10	ug, Total	2.29	10	P9E1532	PSE0615-11	05-17-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
Valeraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009
Hexaldehyde	0.8140	0.7675	IH10	ug, Total	5.88	10	P9E1532	PSE0615-11	05-17-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E1532	PSE0615-11	05-17-2009

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date

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LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E1532-BS1								
Formaldehyde	0.45	0.5339	IH11	ug, Total	119%	22-134	P9E1532	05-16-2009
Acetaldehyde	0.45	0.5127	IH11	ug, Total	114%	51-142	P9E1532	05-16-2009
Acrolein	0.45	0.2280	IH10, L2	ug, Total	51%	75-125	P9E1532	05-16-2009
Acetone	0.45	0.6496	IH10, IH5	ug, Total	144%	75-125	P9E1532	05-16-2009
Propionaldehyde	0.45	0.7185	IH10, L1	ug, Total	160%	67-145	P9E1532	05-16-2009
Crotonaldehyde	0.45	0.3963	IH10	ug, Total	88%	66-146	P9E1532	05-16-2009
Butyraldehyde	0.45	0.5296	IH10	ug, Total	118%	56-141	P9E1532	05-16-2009
Benzaldehyde	0.45	0.4549	IH10	ug, Total	101%	57-142	P9E1532	05-16-2009
Isovaleraldehyde	0.45	0.4612	IH10	ug, Total	102%	66-144	P9E1532	05-16-2009
Valeraldehyde	0.45	0.4755	IH10	ug, Total	106%	66-144	P9E1532	05-16-2009
o-Tolualdehyde	0.45	0.4734	IH10	ug, Total	105%	39-130	P9E1532	05-16-2009
m-Tolualdehyde	0.45	0.4486	IH10	ug, Total	100%	73-143	P9E1532	05-16-2009
p-Tolualdehyde	0.45	0.4459	IH10	ug, Total	99%	66-147	P9E1532	05-16-2009
Hexaldehyde	0.45	0.4746	IH10	ug, Total	105%	65-145	P9E1532	05-16-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4526	IH10	ug, Total	101%	75-144	P9E1532	05-16-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9E2245-BS1								
Hydrochloric Acid	10.3	9.469	IH10	ug, Total	92%	70-130	P9E2245	05-21-2009
Hydrofluoric Acid	10.6	10.67	IH10	ug, Total	101%	70-130	P9E2245	05-21-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9E1532-BSD1												
Formaldehyde		0.5373	IH11	ug, Total	0.45	119%	22-134	0.635	20	P9E1532		05-16-2009
Acetaldehyde		0.5228	IH11	ug, Total	0.45	116%	51-142	1.95	20	P9E1532		05-16-2009
Acrolein		0.2168	IH10, L2	ug, Total	0.45	48%	75-125	5.04	20	P9E1532		05-16-2009
Acetone		0.6285	IH10,	ug, Total	0.45	140%	75-125	3.3	20	P9E1532		05-16-2009
Propionaldehyde		0.7505	IH10, L1	ug, Total	0.45	167%	67-145	4.36	20	P9E1532		05-16-2009
Crotonaldehyde		0.3912	IH10	ug, Total	0.45	87%	66-146	1.3	20	P9E1532		05-16-2009
Butyraldehyde		0.5022	IH10	ug, Total	0.45	112%	56-141	5.31	20	P9E1532		05-16-2009
Benzaldehyde		0.4590	IH10	ug, Total	0.45	102%	57-142	0.897	20	P9E1532		05-16-2009
Isovaleraldehyde		0.4643	IH10	ug, Total	0.45	103%	66-144	0.67	20	P9E1532		05-16-2009
Valeraldehyde		0.4841	IH10	ug, Total	0.45	108%	66-144	1.79	20	P9E1532		05-16-2009
o-Tolualdehyde		0.4796	IH10	ug, Total	0.45	107%	39-130	1.3	20	P9E1532		05-16-2009
m-Tolualdehyde		0.4539	IH10	ug, Total	0.45	101%	73-143	1.17	20	P9E1532		05-16-2009
p-Tolualdehyde		0.4528	IH10	ug, Total	0.45	101%	66-147	1.54	20	P9E1532		05-16-2009
Hexaldehyde		0.4806	IH10	ug, Total	0.45	107%	65-145	1.26	20	P9E1532		05-16-2009
2,5-Dimethyl Benzaldehyde		0.4596	IH10	ug, Total	0.45	102%	75-144	1.53	20	P9E1532		05-16-2009
Inorganic Acids by NIOSH 7903 (Modified)												

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LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9E2245-BSD1												
Hydrochloric Acid		9.060	IH10	ug, Total	10.3	88%	70-130	4.41	30	P9E2245		05-21-2009
Hydrofluoric Acid		10.44	IH10	ug, Total	10.6	99%	70-130	2.18	30	P9E2245		05-21-2009

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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 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, 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

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0615 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/12/09 Reported: 05/27/09 10:47	

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).

IH5 The associated blank media spike recovery was above laboratory acceptance limits, because of background interference present in the media or solvent that was below the reporting limit, but high enough to have an effect on the recovery of the spikes.

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

L2 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.

ADDITIONAL COMMENTS

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 12, 2009

APPENDIX D. Laboratory Analytical Results from Event #120:
Sampling conducted Sunday May 10 to Monday May 11

Test America Laboratories: EPA Method TO-15; EPA Method TO-11A; NIOSH 7903

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H9E130202

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 22, 2009

ANALYTICAL METHODS SUMMARY

H9E130202

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

H9E130202

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LCXLP	001	SU-C051009	05/10/09	
LCXLR	002	SU-G051009	05/10/09	
LCXLT	003	SU-S051009	05/10/09	
LCXLV	004	SU-W051009	05/10/09	
LCXLX	005	SU-COS051009	05/10/09	

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
H9E130202

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 05/14/09 exhibited a %difference of >30% but ≤40% for 3-chloropropene and 1,2,4-trichlorobenzene. . The calibration verification analyzed on 05/15/09 exhibited a %difference of >30% but ≤40% for 1,2-dichlorotetrafluoroethane.

The surrogate recoveries for batch 9139260 were quantified using the daily calibration verification standard.

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-C051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 001 **Work Order #** LCXLP1AA **Matrix.....:** AIR

Date Sampled...: 05/10/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/18/2009 **Analysis Date...** 05/18/2009
Prep Batch #.....: 9139260
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	**3.9**	**5.0**	**9.1**	**J**	**12**
Ethylbenzene	**0.068**	**0.20**	**0.30**	**J**	**0.87**
Trichlorofluoromethane	**0.22**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.19**	**0.50**	**0.79**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.30**	**0.50**	**1.0**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.052**	**2.0**	**0.16**	**J**	**6.1**
Methylene chloride	**0.34**	**0.50**	**1.2**	**J B**	**1.7**
Benzene	**0.17**	**0.20**	**0.55**	**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	**0.29**	**0.20**	**1.1**		**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	**0.069**	**0.20**	**0.53**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.074**	**0.20**	**0.36**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.070**	**0.20**	**0.30**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.17**	**0.20**	**0.74**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.39**	**1.0**	**1.1**	**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	**0.11**	**0.20**	**0.67**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 001 **Work Order #** LCXLP1AA **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	**0.51**	**0.50**	**1.0**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.092**	**0.50**	**0.32**	**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	**0.43**	**0.20**	**2.1**		**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	100	70 - 130

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-G051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 002 **Work Order #** LCXLR1AA **Matrix.....:** AIR

Date Sampled...: 05/10/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009
Prep Batch #.....: 9138490
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	**6.3**	**5.0**	**15**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.20**	**0.50**	**0.81**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.24**	**0.50**	**0.85**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.11**	**2.0**	**0.32**	**J**	**6.1**
Methylene chloride	**1.7**	**0.50**	**6.0**	**B**	**1.7**
Benzene	**0.19**	**0.20**	**0.61**	**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	**0.39**	**0.20**	**1.5**		**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	**0.073**	**0.20**	**0.56**	**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)	**0.85**	**1.0**	**2.5**	**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	**0.082**	**0.20**	**0.52**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 002 **Work Order #** LCXLR1AA **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	**0.038**	**0.20**	**0.10**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.69**	**0.50**	**1.4**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.098**	**0.50**	**0.34**	**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	**0.55**	**0.20**	**2.7**		**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	109	70 - 130

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-S051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 003 **Work Order #** LCXLT1AA **Matrix.....:** AIR

Date Sampled...: 05/10/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009
Prep Batch #.....: 9138490
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	**15**	**5.0**	**35**		**12**
Ethylbenzene	**0.11**	**0.20**	**0.48**	**J**	**0.87**
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.47**	**0.50**	**1.9**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.24**	**0.50**	**0.86**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.072**	**0.50**	**0.33**	**J**	**2.3**
tert-Butyl alcohol	**0.27**	**2.0**	**0.81**	**J**	**6.1**
Methylene chloride	**0.21**	**0.50**	**0.72**	**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	**0.46**	**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	**0.077**	**0.20**	**0.59**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.083**	**0.20**	**0.41**	**J**	**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**	**0.49**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.27**	**0.20**	**1.2**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.4**	**1.0**	**7.1**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.15**	**0.50**	**0.61**	**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	ND	0.40	ND		2.0
Carbon disulfide	**0.053**	**0.50**	**0.17**	**J**	**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.67**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 003 **Work Order #** LCXLT1AA **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	**0.053**	**0.20**	**0.14**	**J**	**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	**0.063**	**0.50**	**0.22**	**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	**0.54**	**0.20**	**2.7**		**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	111	70 - 130

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-W051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 004 **Work Order #** LCXLV1AA **Matrix.....:** AIR

Date Sampled...: 05/10/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/15/2009
Prep Batch #.....: 9138490
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	**11**	**5.0**	**26**		**12**
Ethylbenzene	**0.078**	**0.20**	**0.34**	**J**	**0.87**
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.38**	**0.50**	**1.5**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.23**	**0.50**	**0.80**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.039**	**0.50**	**0.18**	**J**	**2.3**
tert-Butyl alcohol	**0.18**	**2.0**	**0.56**	**J**	**6.1**
Methylene chloride	**0.29**	**0.50**	**1.0**	**J B**	**1.7**
Benzene	**0.18**	**0.20**	**0.58**	**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	**0.34**	**0.20**	**1.3**		**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	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	**0.088**	**0.20**	**0.38**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.24**	**0.20**	**1.1**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.9**	**1.0**	**5.7**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.10**	**0.50**	**0.42**	**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	ND	0.40	ND		2.0
Carbon disulfide	**0.033**	**0.50**	**0.10**	**J**	**1.6**
Carbon tetrachloride	**0.080**	**0.20**	**0.50**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 004 **Work Order #** LCXLV1AA **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	**0.077**	**0.20**	**0.20**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.65**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.073**	**0.50**	**0.25**	**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	**0.54**	**0.20**	**2.7**		**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	70 - 130

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-COS051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 005 **Work Order #** LCXLX1AA **Matrix.....:** AIR

Date Sampled...: 05/10/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/15/2009
Prep Batch #.....: 9138490
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	**4.7**	**5.0**	**11**	**J**	**12**
Ethylbenzene	**0.17**	**0.20**	**0.75**	**J**	**0.87**
Trichlorofluoromethane	**0.26**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.22**	**0.50**	**0.90**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.22**	**0.50**	**0.77**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.070**	**0.50**	**0.33**	**J**	**2.3**
tert-Butyl alcohol	**0.099**	**2.0**	**0.30**	**J**	**6.1**
Methylene chloride	**0.19**	**0.50**	**0.67**	**J B**	**1.7**
Benzene	**0.29**	**0.20**	**0.91**		**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	**0.52**	**0.20**	**2.0**		**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	**0.15**	**0.20**	**0.75**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.18**	**0.20**	**0.78**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.40**	**0.20**	**1.7**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.58**	**1.0**	**1.7**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.050**	**0.50**	**0.21**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.080**	**0.20**	**0.50**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS051009

GC/MS Volatiles

Lot-Sample # H9E130202 - 005 **Work Order #** LCXLX1AA **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	**0.63**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.060**	**0.50**	**0.21**	**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	**0.53**	**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	96	70 - 130

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 # H9E180000 - 490B **Work Order #** LC9LJ1AA **Matrix.....:** AIR

05/12/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009
Prep Batch #.....: 9138490
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	**0.13**	**0.50**	**0.46**	**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 # H9E180000 - 490B **Work Order #** LC9LJ1AA **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	93	70 - 130

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 # H9E180000 - 490C **Work Order #** LC9LJ1AC **Matrix.....:** AIR

05/12/2009 **Date Received..:** 05/13/2009

Prep Date.....: 05/14/2009 **Analysis Date...** 05/14/2009

Prep Batch #.....: 9138490

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
Benzene	12.5	8.85	40	28	71	70 - 130
Toluene	12.5	10.6	47	40	84	70 - 130
Trichloroethene	12.5	8.77	67	47	70	70 - 130
Chlorobenzene	12.5	9.90	58	46	79	70 - 130
1,1-Dichloroethene	12.5	11.7	50	46	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	70 - 130

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 # H9E190000 - 260B **Work Order #** LDAQG1AA **Matrix.....:** AIR

05/12/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/18/2009 **Analysis Date...** 05/18/2009
Prep Batch #.....: 9139260
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	**0.072**	**0.50**	**0.25**	**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 # H9E190000 - 260B **Work Order #** LDAQG1AA **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	70 - 130

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 # H9E190000 - 260C **Work Order #** LDAQG1AC **Matrix.....:** AIR

05/12/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/18/2009 **Analysis Date...** 05/18/2009
Prep Batch #.....: 9139260
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
Benzene	2.50	2.25	8.0	7.2	90	70 - 130
Toluene	2.50	2.04	9.4	7.7	82	70 - 130
Trichloroethene	2.50	2.33	13	13	93	70 - 130
Chlorobenzene	2.50	2.05	12	9.4	82	70 - 130
1,1-Dichloroethene	2.50	2.53	9.9	10	101	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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.

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

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

H9E130202 № 8443

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8592 3781 2470
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: County wide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Method TO-15	Analysis VOC	Expected Conc. (H,M,L,)	Hold	Remarks: Summa Can #
SU-C051009				5/10/09	1440	Cell Tower	1			X			04719
SU-G051009				5/10/09	1440	Campground	1			X			93001
SU-S051009				5/10/09	1440	School	1			X			6356
SU-W051009				5/10/09	1440	Wetland	1			X			93039
SU-COS051009				5/10/09	1440	Co-Located School	1			X			92068

REC. AT AMBIENT
CUSTODY SEAL INTACT
1 BOX RH 5/13/09
FED EX # 8592 3781 2470

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5/12/09 1500	Ryan Henry	5/13/09 0945				
[signature]	5/12/09 0800						

Comments:

Distributor: White - File; Yellow - Lab

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

Canister Samples Chain of Custody Record

HYF-130202

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

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Client Contact Information
Company: Lawhon & Associates
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 # 07-00821

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		Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C051009	5/10/09	15:00	15:00	-29.0	0	K338	04719	X											
SU-G051009	↓	↓	↓	-29.5	0	K131	93001	X											
SU-S051009	↓	↓	↓	-30	-2.0	K391	6356	X											
SU-W051009	↓	↓	↓	-30	-3.0	K188	93039	X											
SU-COS051009	↓	↓	↓	-29.0	-5.5	K158	92068	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Return Can #12646, did not use.

Canisters Shipped by:	Date/Time: 5/12/09 1500	Canisters Received by:
Samples Relinquished by:	Date/Time: 5/12/09 0800	Received by:
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9F130202

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 SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
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: Ryan Henry Date: 5/13/09

QA026R19.doc, 080707

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

May 29, 2009

LABORATORY REPORT

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

Work Order: PSE0690
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 05/13/09

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 5.8°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

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

Work Order: PSE0690
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/13/09
Reported: 05/29/09 10:15

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C0501009-01A	PSE0690-01	05/10/09	DNPH Silica Gel Tube, 450 mg
C0501009-02A	PSE0690-02	05/10/09	DNPH Silica Gel Tube, 450 mg
C0501009-03A	PSE0690-03	05/10/09	DNPH Silica Gel Tube, 450 mg
G0501009-01A	PSE0690-04	05/10/09	DNPH Silica Gel Tube, 450 mg
G0501009-02A	PSE0690-05	05/10/09	DNPH Silica Gel Tube, 450 mg
G0501009-03A	PSE0690-06	05/10/09	DNPH Silica Gel Tube, 450 mg
S0501009-01A	PSE0690-07	05/10/09	DNPH Silica Gel Tube, 450 mg
S0501009-02A	PSE0690-08	05/10/09	DNPH Silica Gel Tube, 450 mg
S0501009-03A	PSE0690-09	05/10/09	DNPH Silica Gel Tube, 450 mg
W0501009-01A	PSE0690-10	05/10/09	DNPH Silica Gel Tube, 450 mg
W0501009-02A	PSE0690-11	05/10/09	DNPH Silica Gel Tube, 450 mg
W0501009-03A	PSE0690-12	05/10/09	DNPH Silica Gel Tube, 450 mg
0501009A-A	PSE0690-13	05/10/09	DNPH Silica Gel Tube, 450 mg
C0501009-01H	PSE0690-14	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
C0501009-02H	PSE0690-15	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
C0501009-03H	PSE0690-16	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
G0501009-01H	PSE0690-17	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
G0501009-02H	PSE0690-18	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
G0501009-03H	PSE0690-19	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
S0501009-01H	PSE0690-20	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
S0501009-02H	PSE0690-21	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
S0501009-03H	PSE0690-22	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
W0501009-01H	PSE0690-23	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
W0501009-02H	PSE0690-24	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
W0501009-03H	PSE0690-25	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned
0501009A-H	PSE0690-26	05/10/09	Silica Gel tube, 200/400 mg Specially cleaned

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

ANALYTICAL REPORT

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

Sample ID: PSE0690-01 (C0501009-01A) **Tube** **Sample Air Volume:196.32L** **Sampled: 05/10/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000153	<0.0000278	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.16	0.0263	0.0146	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0976	0.000497	0.000276	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.06	0.0258	0.0143	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	1.78	0.00907	0.00382	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000153	<0.0000666	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.567	0.00289	0.000665	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000153	<0.0000518	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000153	<0.0000533	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.50	0.00764	0.00622	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0532	0.000271	0.000221	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.45	0.00739	0.00601	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.88	0.00958	0.00234	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000153	<0.0000434	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000153	<0.0000311	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000153	<0.0000311	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.737	0.00375	0.00158	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0528	0.000269	0.000113	IH10	5/22/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.684	0.00348	0.00147	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000153	<0.0000311	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.612	0.00312	0.000885	IH10	5/23/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE0690-02 (C0501009-02A) **Tube** **Sample Air Volume:161.28L** **Sampled: 05/10/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000186	<0.0000339	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.22	0.0138	0.00764	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0876	0.000543	0.000301	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.13	0.0132	0.00733	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	0.938	0.00582	0.00245	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000186	<0.0000811	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.268	0.00166	0.000383	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000186	<0.0000631	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000186	<0.0000649	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.791	0.0049	0.00399	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0811	0.000503	0.000409	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.710	0.0044	0.00358	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.804	0.00499	0.00122	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0780	0.000484	0.000137	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0883	0.000547	0.000111	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000186	<0.0000379	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.314	0.00195	0.00082	IH10	5/23/2009	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: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-02 (C0501009-02A) - cont.	**Tube**		**Sample Air Volume:161.28L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
p-Tolualdehyde	<0.0300	<0.000186	<0.0000379	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.219	0.00136	0.000385	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-03 (C0501009-03A)	**Tube**		**Sample Air Volume:197.76L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000152	<0.0000276	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.55	0.023	0.0128	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0953	0.000482	0.000267	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.45	0.0225	0.0125	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	2.54	0.0128	0.00541	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.470	0.00238	0.001	IH10	5/22/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.07	0.0105	0.00441	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000152	<0.0000662	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.332	0.00168	0.000387	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000152	<0.0000514	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000152	<0.0000529	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.38	0.00698	0.00568	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0557	0.000282	0.000229	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.32	0.00667	0.00543	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.26	0.00637	0.00156	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000152	<0.0000431	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000152	<0.0000309	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000152	<0.0000309	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.570	0.00288	0.00121	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000152	<0.0000309	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.376	0.0019	0.00054	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-04 (G0501009-01A)	**Tube**		**Sample Air Volume:129.12L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000232	<0.0000423	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.85	0.0376	0.0208	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.110	0.000852	0.000473	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.74	0.0367	0.0204	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	2.54	0.0197	0.00828	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.513	0.00397	0.00167	IH10	5/22/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.03	0.0157	0.00662	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000232	<0.000101	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.388	0.003	0.000692	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000232	<0.0000788	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000232	<0.000081	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.47	0.0114	0.00927	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0516	0.0004	0.000325	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.42	0.011	0.00895	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.76	0.0136	0.00333	IH10	5/23/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-04 (G0501009-01A) - cont.	**Tube**		**Sample Air Volume:129.12L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	<0.0300	<0.000232	<0.000066	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000232	<0.0000473	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000232	<0.0000473	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.553	0.00428	0.0018	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000232	<0.0000473	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.447	0.00346	0.000983	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-05 (G0501009-02A)	**Tube**		**Sample Air Volume:111.84L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000268	<0.0000489	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.06	0.00948	0.00526	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.130	0.00116	0.000645	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.934	0.00835	0.00464	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	0.568	0.00508	0.00214	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000268	<0.000117	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0342	0.000306	0.0000705	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000268	<0.000091	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000268	<0.0000936	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.228	0.00204	0.00166	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0705	0.00063	0.000513	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.157	0.0014	0.00114	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0703	0.000629	0.000153	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000268	<0.0000761	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000268	<0.0000546	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000268	<0.0000546	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.107	0.000957	0.000403	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000268	<0.0000546	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0348	0.000311	0.0000883	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-06 (G0501009-03A)	**Tube**		**Sample Air Volume:134.4L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000223	<0.0000407	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.18	0.0311	0.0173	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0995	0.00074	0.000411	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.08	0.0304	0.0168	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	1.48	0.011	0.00464	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000223	<0.0000973	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.452	0.00336	0.000775	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000223	<0.0000757	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000223	<0.0000779	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.82	0.0135	0.011	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0786	0.000585	0.000476	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.74	0.0129	0.0105	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.35	0.01	0.00245	IH10	5/23/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-06 (G0501009-03A) - cont.	**Tube**		**Sample Air Volume:134.4L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Isovaleraldehyde	0.0433	0.000322	0.0000915	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000223	<0.0000454	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.145	0.00108	0.00022	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.521	0.00388	0.00163	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000223	<0.0000454	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.405	0.00301	0.000855	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-07 (S0501009-01A)	**Tube**		**Sample Air Volume:116.16L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000258	<0.0000471	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	7.02	0.0604	0.0335	IH11, RL7	5/26/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0942	0.000811	0.00045	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.93	0.0597	0.0331	IH11, RL7	5/26/2009	zn	0.300	EPA TO-11A
Acetone	1.69	0.0145	0.00612	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000258	<0.000113	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.385	0.00331	0.000764	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000258	<0.0000876	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000258	<0.0000901	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.19	0.0102	0.00834	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0583	0.000502	0.000409	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.13	0.00973	0.00792	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.25	0.0108	0.00263	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000258	<0.0000733	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000258	<0.0000526	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.000258	<0.0000526	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.745	0.00641	0.0027	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000258	<0.0000526	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.333	0.00287	0.000814	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-08 (S0501009-02A)	**Tube**		**Sample Air Volume:208.32L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000144	<0.0000262	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.31	0.0159	0.00882	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.121	0.000581	0.000322	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.19	0.0153	0.0085	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	1.43	0.00686	0.00289	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.392	0.00188	0.000792	IH10	5/22/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.04	0.00499	0.0021	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000144	<0.0000628	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.424	0.00204	0.000469	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.600	0.00288	0.000977	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000144	<0.0000502	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.889	0.00427	0.00347	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0666	0.00032	0.00026	IH11	5/22/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-08 (S0501009-02A) - cont.	**Tube**		**Sample Air Volume:208.32L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Formaldehyde - Front	0.822	0.00395	0.00321	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.911	0.00437	0.00107	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000144	<0.0000409	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.140	0.000672	0.000137	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.413	0.00198	0.000835	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000144	<0.0000293	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.217	0.00104	0.000296	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-09 (S0501009-03A)	**Tube**		**Sample Air Volume:212.64L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000141	<0.0000257	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.91	0.0278	0.0154	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0978	0.00046	0.000255	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	5.81	0.0273	0.0152	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	2.37	0.0111	0.00469	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.382	0.0018	0.000756	IH10	5/22/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.99	0.00936	0.00394	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	0.0358	0.000168	0.0000734	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.551	0.00259	0.000597	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000141	<0.0000478	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000141	<0.0000492	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.60	0.00752	0.00613	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0699	0.000329	0.000268	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.53	0.0072	0.00586	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.64	0.00771	0.00188	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000141	<0.00004	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.157	0.000738	0.00015	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.199	0.000936	0.00019	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.703	0.00331	0.00139	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000141	<0.0000287	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.408	0.00192	0.000545	IH10	5/23/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-10 (W0501009-01A)	**Tube**		**Sample Air Volume:196.32L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000153	<0.0000278	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	6.90	0.0351	0.0195	RL7, IH11	5/26/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.150	0.000764	0.000424	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	6.75	0.0344	0.0191	IH11, RL7	5/26/2009	zn	0.300	EPA TO-11A
Acetone	2.65	0.0135	0.00568	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.407	0.00207	0.000873	IH10	5/22/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.24	0.0114	0.0048	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	0.0323	0.000165	0.0000718	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acrolein - Back (e)	0.0323	0.000165	0.0000718	IH10	5/22/2009	zn	0.0300	EPA TO-11A
Acrolein - Front	<0.0300	<0.000153	<0.0000666	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.710	0.00362	0.000833	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000153	<0.0000518	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	0.0390	0.000199	0.0000693	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Back (e)	0.0390	0.000199	0.0000693	IH10	5/22/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde - Front	<0.0300	<0.000153	<0.0000533	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.78	0.00907	0.00738	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0747	0.000381	0.00031	IH11	5/22/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.71	0.00871	0.00709	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.20	0.0112	0.00274	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000153	<0.0000434	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000153	<0.0000311	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.225	0.00115	0.000233	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.819	0.00417	0.00176	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000153	<0.0000311	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.630	0.00321	0.000911	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-11 (W0501009-02A)	**Tube**		**Sample Air Volume:194.88L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000154	<0.0000281	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.51	0.0129	0.00715	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0904	0.000464	0.000257	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	2.42	0.0124	0.00689	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	0.781	0.00401	0.00169	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000154	<0.0000671	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.342	0.00175	0.000404	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.497	0.00255	0.000865	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000154	<0.0000537	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.747	0.00383	0.00312	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0666	0.000342	0.000278	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.680	0.00349	0.00284	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.878	0.00451	0.0011	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000154	<0.0000437	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000154	<0.0000313	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.108	0.000554	0.000113	IH10	5/23/2009	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: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-11 (W0501009-02A) - cont.	**Tube**		**Sample Air Volume:194.88L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Propionaldehyde	0.355	0.00182	0.000767	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back (e)	0.0326	0.000167	0.0000704	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.322	0.00165	0.000696	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000154	<0.0000313	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.212	0.00109	0.000309	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-12 (W0501009-03A)	**Tube**		**Sample Air Volume:183.36L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000164	<0.0000298	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	5.04	0.0275	0.0153	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.104	0.000567	0.000315	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.94	0.0269	0.015	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	1.59	0.00867	0.00365	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000164	<0.0000714	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.536	0.00292	0.000674	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000164	<0.0000555	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000164	<0.0000571	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.46	0.00796	0.00648	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0701	0.000382	0.000311	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.39	0.00758	0.00617	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.57	0.00856	0.00209	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000164	<0.0000464	IH10	5/23/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000164	<0.0000333	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.233	0.00127	0.000259	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.567	0.00309	0.0013	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000164	<0.0000333	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.441	0.00241	0.000683	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE0690-13 (0501009A-A)	**Tube**		**Sample Air Volume:L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.156	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0645	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0914	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	--	--	IH10	5/23/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.180	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0649	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.115	--	--	IH11	5/23/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-13 (0501009A-A) - cont.	**Tube**		**Sample Air Volume:L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
m-Tolualdehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/23/2009	zn	0.0300	EPA TO-11A

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

Inorganic Acids by NIOSH 7903 (Modified)

Sample ID: PSE0690-14 (C0501009-01H)	**Tube**		**Sample Air Volume:127.2L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0149	<0.01		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0172	<0.021		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-15 (C0501009-02H)	**Tube**		**Sample Air Volume:129.6L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0147	<0.00983		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0169	<0.0206		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-16 (C0501009-03H)	**Tube**		**Sample Air Volume:127.2L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0149	<0.01		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0172	<0.021		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-17 (G0501009-01H)	**Tube**		**Sample Air Volume:95.04L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.02	<0.0134		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.023	<0.0282		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-18 (G0501009-02H)	**Tube**		**Sample Air Volume:90.72L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0209	<0.014		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0241	<0.0295		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-19 (G0501009-03H)	**Tube**		**Sample Air Volume:91.68L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0207	<0.0139		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0239	<0.0292		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-20 (S0501009-01H)	**Tube**		**Sample Air Volume:134.88L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0141	<0.00945		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0162	<0.0198		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-21 (S0501009-02H)	**Tube**		**Sample Air Volume:161.76L**				**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0117	<0.00788		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0135	<0.0165		5/24/2009	ss	2.19	NIOSH 7903 (MOD)

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE0690-22 (S0501009-03H)		**Tube**		**Sample Air Volume:141.12L**			**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0135	<0.00903		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0155	<0.019		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-23 (W0501009-01H)		**Tube**		**Sample Air Volume:124.8L**			**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0152	<0.0102		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0175	<0.0214		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-24 (W0501009-02H)		**Tube**		**Sample Air Volume:126.24L**			**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0151	<0.0101		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0173	<0.0212		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-25 (W0501009-03H)		**Tube**		**Sample Air Volume:116.64L**			**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	<0.0163	<0.0109		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.0188	<0.0229		5/24/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE0690-26 (0501009A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 05/10/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Hydrochloric Acid	<1.90	--	--		5/24/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	--	--		5/24/2009	ss	2.19	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)						
P9E2228-BLK1						
Formaldehyde	0.09549		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Formaldehyde - Back	0.05785		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acetaldehyde	0.08056		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acetaldehyde - Back	0.06702		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acrolein	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acrolein - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acetone	<0.300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Acetone - Back	<0.300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Propionaldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Propionaldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Crotonaldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Crotonaldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Butyraldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Butyraldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Benzaldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Benzaldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Isovaleraldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Isovaleraldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Valeraldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Valeraldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
o-Tolualdehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
o-Tolualdehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
m-Tolualdehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
m-Tolualdehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
p-Tolualdehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
p-Tolualdehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Hexaldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Hexaldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	P9E2228	P9E2228-BLK1	05-22-2009
Inorganic Acids by NIOSH 7903 (Modified)						
P9E2401-BLK1						
Hydrochloric Acid	<1.90		ug, Total	P9E2401	P9E2401-BLK1	05-24-2009
Hydrochloric Acid - Back	<1.90		ug, Total	P9E2401	P9E2401-BLK1	05-24-2009
Hydrofluoric Acid	<2.19		ug, Total	P9E2401	P9E2401-BLK1	05-24-2009
Hydrofluoric Acid - Back	<2.19		ug, Total	P9E2401	P9E2401-BLK1	05-24-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)						

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9E2228-DUP1									
Formaldehyde	1.450	1.458	IH11	ug, Total	0.55	10	P9E2228	PSE0690-01	05-23-2009
Acetaldehyde	5.060	5.050	IH11	ug, Total	0.198	10	P9E2228	PSE0690-01	05-23-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
Acetone	1.780	1.771	IH10	ug, Total	0.507	10	P9E2228	PSE0690-01	05-23-2009
Propionaldehyde	0.6840	0.6842	IH10	ug, Total	0.0292	10	P9E2228	PSE0690-01	05-23-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
Benzaldehyde	0.5670	0.5592	IH10	ug, Total	1.39	10	P9E2228	PSE0690-01	05-23-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
Valeraldehyde	0.6120	0.6014	IH10	ug, Total	1.75	10	P9E2228	PSE0690-01	05-23-2009
o-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
Hexaldehyde	1.880	1.839	IH10	ug, Total	2.2	10	P9E2228	PSE0690-01	05-23-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-01	05-23-2009
P9E2228-DUP2									
Formaldehyde	0.6800	0.6765	IH11	ug, Total	0.516	10	P9E2228	PSE0690-11	05-23-2009
Acetaldehyde	2.420	2.408	IH11	ug, Total	0.497	10	P9E2228	PSE0690-11	05-23-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009
Acetone	0.7810	0.7830	IH10	ug, Total	0.256	10	P9E2228	PSE0690-11	05-23-2009
Propionaldehyde	0.3220	0.3218	IH10	ug, Total	0.0621	10	P9E2228	PSE0690-11	05-23-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009
Butyraldehyde	0.4970	0.4965	IH10	ug, Total	0.101	10	P9E2228	PSE0690-11	05-23-2009
Benzaldehyde	0.3420	0.3408	IH10	ug, Total	0.351	10	P9E2228	PSE0690-11	05-23-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009
Valeraldehyde	0.2120	0.2177	IH10	ug, Total	2.65	10	P9E2228	PSE0690-11	05-23-2009
o-Tolualdehyde	0.1080	0.1105	IH10	ug, Total	2.29	10	P9E2228	PSE0690-11	05-23-2009
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009
Hexaldehyde	0.8780	0.9251	IH10	ug, Total	5.22	10	P9E2228	PSE0690-11	05-23-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2228	PSE0690-11	05-23-2009

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date

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LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E2228-BS1								
Formaldehyde	0.45	0.5259	IH11	ug, Total	117%	22-134	P9E2228	05-22-2009
Acetaldehyde	0.45	0.5293	IH11	ug, Total	118%	51-142	P9E2228	05-22-2009
Acrolein	0.45	0.3560	IH10	ug, Total	79%	75-125	P9E2228	05-22-2009
Acetone	0.45	0.6281	IH10, IH5	ug, Total	140%	75-125	P9E2228	05-22-2009
Propionaldehyde	0.45	0.5996	IH10	ug, Total	133%	67-145	P9E2228	05-22-2009
Crotonaldehyde	0.45	0.4399	IH10	ug, Total	98%	66-146	P9E2228	05-22-2009
Butyraldehyde	0.45	0.5292	IH10	ug, Total	118%	56-141	P9E2228	05-22-2009
Benzaldehyde	0.45	0.4706	IH10	ug, Total	105%	57-142	P9E2228	05-22-2009
Isovaleraldehyde	0.45	0.4714	IH10	ug, Total	105%	66-144	P9E2228	05-22-2009
Valeraldehyde	0.45	0.4864	IH10	ug, Total	108%	66-144	P9E2228	05-22-2009
o-Tolualdehyde	0.45	0.4920	IH10	ug, Total	109%	39-130	P9E2228	05-22-2009
m-Tolualdehyde	0.45	0.4658	IH10	ug, Total	104%	73-143	P9E2228	05-22-2009
p-Tolualdehyde	0.45	0.4517	IH10	ug, Total	100%	66-147	P9E2228	05-22-2009
Hexaldehyde	0.45	0.4899	IH10	ug, Total	109%	65-145	P9E2228	05-22-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4615	IH10	ug, Total	103%	75-144	P9E2228	05-22-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9E2401-BS1								
Hydrochloric Acid	10.3	10.55		ug, Total	102%	70-130	P9E2401	05-24-2009
Hydrofluoric Acid	10.6	11.47		ug, Total	108%	70-130	P9E2401	05-24-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9E2228-BSD1												
Formaldehyde		0.5142	IH11	ug, Total	0.45	114%	22-134	2.25	20	P9E2228		05-22-2009
Acetaldehyde		0.5223	IH11	ug, Total	0.45	116%	51-142	1.33	20	P9E2228		05-22-2009
Acrolein		0.3549	IH10	ug, Total	0.45	79%	75-125	0.309	20	P9E2228		05-22-2009
Acetone		0.6053	IH10,	ug, Total	0.45	135%	75-125	3.7	20	P9E2228		05-22-2009
Propionaldehyde		0.5938	IH10	ug, Total	0.45	132%	67-145	0.972	20	P9E2228		05-22-2009
Crotonaldehyde		0.4344	IH10	ug, Total	0.45	97%	66-146	1.26	20	P9E2228		05-22-2009
Butyraldehyde		0.5194	IH10	ug, Total	0.45	115%	56-141	1.87	20	P9E2228		05-22-2009
Benzaldehyde		0.4738	IH10	ug, Total	0.45	105%	57-142	0.678	20	P9E2228		05-22-2009
Isovaleraldehyde		0.4595	IH10	ug, Total	0.45	102%	66-144	2.56	20	P9E2228		05-22-2009
Valeraldehyde		0.4794	IH10	ug, Total	0.45	107%	66-144	1.45	20	P9E2228		05-22-2009
o-Tolualdehyde		0.4856	IH10	ug, Total	0.45	108%	39-130	1.31	20	P9E2228		05-22-2009
m-Tolualdehyde		0.4589	IH10	ug, Total	0.45	102%	73-143	1.49	20	P9E2228		05-22-2009
p-Tolualdehyde		0.4460	IH10	ug, Total	0.45	99%	66-147	1.27	20	P9E2228		05-22-2009
Hexaldehyde		0.4836	IH10	ug, Total	0.45	107%	65-145	1.29	20	P9E2228		05-22-2009
2,5-Dimethyl Benzaldehyde		0.4600	IH10	ug, Total	0.45	102%	75-144	0.326	20	P9E2228		05-22-2009
Inorganic Acids by NIOSH 7903 (Modified)												

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9E2401-BSD1												
Hydrochloric Acid		9.802		ug, Total	10.3	95%	70-130	7.35	30	P9E2401		05-24-2009
Hydrofluoric Acid		10.81		ug, Total	10.6	102%	70-130	5.92	30	P9E2401		05-24-2009

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

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 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, 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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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PSE0690 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/13/09 Reported: 05/29/09 10:15	

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).

IH5 The associated blank media spike recovery was above laboratory acceptance limits, because of background interference present in the media or solvent that was below the reporting limit, but high enough to have an effect on the recovery of the spikes.

RL7 Sample required dilution due to high concentration of target analyte.

ADDITIONAL COMMENTS

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
Monthly Report #25

June 12, 2009

APPENDIX E. Laboratory Analytical Results from Event #121:
Sampling conducted Saturday May 16 to Friday May 17

Test America Laboratories: EPA Method TO-15; EPA Method TO-11A; NIOSH 7903

TestAmerica
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TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Countywide

Lot #: H9E200165

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

May 28, 2009

ANALYTICAL METHODS SUMMARY

H9E200165

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

H9E200165

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LDD46	001	SU-C051609	05/16/09	
LDD48	002	SU-G051609	05/16/09	
LDD49	003	SU-S051609	05/16/09	
LDD5A	004	SU-W051609	05/16/09	
LDD5C	005	SU-COG051609	05/16/09	

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
H9E200165

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. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 05/22/09 (LCS for batch 9143080) exhibited a %difference of >30% but ≤40% for carbon tetrachloride. In addition, the calibration verification analyzed on 05/21/09 (LCS for batch 9141459) exhibited a %difference of >40% for 1,2-dichloro-1,1,2,2-tetrafluoroethane. However, since the recovery was high and this analyte was not detected above the reporting limit in the associated samples, the validity of the data is unaffected.

The surrogate recoveries for batches 9141458 and 9143080 were quantified using the daily calibration verification standard.

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-C051609

GC/MS Volatiles

Lot-Sample #	H9E200165 - 001	**Work Order #**	LDD461AA	**Matrix.....:**	AIR

Date Sampled...:	05/16/2009	**Date Received..:**	05/20/2009
Prep Date.....:	05/21/2009	**Analysis Date...**	05/22/2009
Prep Batch #.....:	9141458		
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	**3.0**	**5.0**	**7.2**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.060**	**0.50**	**0.25**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.38**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.083**	**2.0**	**0.25**	**J**	**6.1**
Methylene chloride	**1.6**	**0.50**	**5.6**	**B**	**1.7**
Benzene	**0.14**	**0.20**	**0.43**	**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	**0.14**	**0.20**	**0.53**	**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	**0.079**	**0.20**	**0.60**	**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)	**0.25**	**1.0**	**0.74**	**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	**0.093**	**0.20**	**0.58**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 001 **Work Order #** LDD461AA **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	**0.57**	**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	**0.12**	**0.20**	**0.70**	**J**	**1.2**
Dichlorodifluoromethane	**0.47**	**0.20**	**2.3**		**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	103	70 - 130

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-G051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 002 **Work Order #** LDD481AA **Matrix.....:** AIR

Date Sampled...: 05/16/2009 **Date Received..:** 05/20/2009
Prep Date.....: 05/21/2009 **Analysis Date...** 05/22/2009
Prep Batch #.....: 9141458
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	**3.7**	**5.0**	**8.9**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.085**	**0.50**	**0.35**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.15**	**0.50**	**0.54**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.061**	**2.0**	**0.19**	**J**	**6.1**
Methylene chloride	**1.5**	**0.50**	**5.2**	**B**	**1.7**
Benzene	**0.12**	**0.20**	**0.40**	**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	**0.18**	**0.20**	**0.66**	**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	**0.079**	**0.20**	**0.60**	**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**	**0.54**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.56**	**1.0**	**1.6**	**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	**0.052**	**0.20**	**0.20**	**J**	**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	**0.096**	**0.20**	**0.61**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 002 **Work Order #** LDD481AA **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	**0.043**	**0.20**	**0.11**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.88**	**0.50**	**1.8**		**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	**0.47**	**0.20**	**2.3**		**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	101	70 - 130

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-S051609

GC/MS Volatiles

Lot-Sample #	H9E200165 - 003	**Work Order #**	LDD491AA	**Matrix.....:**	AIR

Date Sampled...:	05/16/2009	**Date Received..:**	05/20/2009
Prep Date.....:	05/22/2009	**Analysis Date...**	05/22/2009
Prep Batch #.....:	9143080		
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	**5.4**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.13**	**0.50**	**0.52**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.45**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.11**	**2.0**	**0.34**	**J**	**6.1**
Methylene chloride	**0.59**	**0.50**	**2.1**	**B**	**1.7**
Benzene	**0.11**	**0.20**	**0.35**	**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	**0.090**	**0.20**	**0.69**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.16**	**0.20**	**0.78**	**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**	**0.57**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.71**	**1.0**	**2.1**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.055**	**0.50**	**0.23**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.11**	**0.20**	**0.70**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 003 **Work Order #** LDD491AA **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	**0.49**	**0.50**	**1.0**	**J**	**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	**0.52**	**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	100	70 - 130

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-W051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 004 **Work Order #** LDD5A1AA **Matrix.....:** AIR

Date Sampled...: 05/16/2009 **Date Received..:** 05/20/2009
Prep Date.....: 05/22/2009 **Analysis Date...** 05/23/2009
Prep Batch #.....: 9143080
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	**5.5**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.3**		**1.1**
n-Heptane	ND	0.50	ND		2.0
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.13**	**0.50**	**0.44**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.075**	**2.0**	**0.23**	**J**	**6.1**
Methylene chloride	**0.54**	**0.50**	**1.9**	**B**	**1.7**
Benzene	**0.13**	**0.20**	**0.40**	**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	**0.13**	**0.20**	**0.49**	**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)	**0.79**	**1.0**	**2.3**	**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-W051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 004 **Work Order #** LDD5A1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
Carbon tetrachloride	**0.096**	**0.20**	**0.61**	**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	**0.49**	**0.50**	**1.0**	**J**	**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	**0.47**	**0.20**	**2.3**		**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	97	70 - 130

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-COG051609

GC/MS Volatiles

Lot-Sample #	H9E200165 - 005	**Work Order #**	LDD5C1AA	**Matrix.....:**	AIR

Date Sampled...:	05/16/2009	**Date Received..:**	05/20/2009
Prep Date.....:	05/22/2009	**Analysis Date...**	05/23/2009
Prep Batch #.....:	9143080		
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	**4.6**	**5.0**	**11**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.11**	**0.50**	**0.44**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.22**	**0.50**	**0.77**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.050**	**2.0**	**0.15**	**J**	**6.1**
Methylene chloride	**0.83**	**0.50**	**2.9**	**B**	**1.7**
Benzene	**0.16**	**0.20**	**0.51**	**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	**0.24**	**0.20**	**0.90**		**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	**0.073**	**0.20**	**0.56**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.082**	**0.20**	**0.41**	**J**	**0.98**
1,3,5-Trimethylbenzene	**0.10**	**0.20**	**0.50**	**J**	**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)	**0.49**	**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	ND	0.40	ND		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-COG051609

GC/MS Volatiles

Lot-Sample # H9E200165 - 005 **Work Order #** LDD5C1AA **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	**0.65**	**0.50**	**1.3**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.042**	**0.50**	**0.15**	**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	**0.47**	**0.20**	**2.3**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.27**	**0.20**	**1.1**		**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	100	70 - 130

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 # H9E210000 - 458B **Work Order #** LDHQ21AA **Matrix.....:** AIR

	05/05/2009	**Date Received..:**	05/13/2009
Prep Date.....:	05/21/2009	**Analysis Date...**	05/21/2009
Prep Batch #.....:	9141458		
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 # H9E210000 - 458B **Work Order #** LDHQ21AA **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	106	70 - 130

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 # H9E210000 - 458C **Work Order #** LDHQ21AC **Matrix.....:** AIR

05/05/2009 **Date Received..:** 05/13/2009
Prep Date.....: 05/21/2009 **Analysis Date...** 05/21/2009
Prep Batch #.....: 9141458
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
Benzene	2.50	2.39	8.0	7.6	96	70 - 130
Toluene	2.50	2.24	9.4	8.5	90	70 - 130
Trichloroethene	2.50	2.47	13	13	99	70 - 130
Chlorobenzene	2.50	2.15	12	9.9	86	70 - 130
1,1-Dichloroethene	2.50	2.61	9.9	10	104	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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 # H9E230000 - 080B **Work Order #** LDNHT1AA **Matrix.....:** AIR

	05/16/2009	**Date Received..:**	05/21/2009
Prep Date.....:	05/22/2009	**Analysis Date...**	05/22/2009
Prep Batch #.....:	9143080		
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	**0.048**	**0.50**	**0.17**	**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 # H9E230000 - 080B Work Order # LDNHT1AA 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	101	70 - 130

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 # H9E230000 - 080C **Work Order #** LDNHT1AC **Matrix.....:** AIR

05/16/2009 **Date Received..:** 05/21/2009
Prep Date.....: 05/22/2009 **Analysis Date...** 05/22/2009
Prep Batch #.....: 9143080
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
Benzene	2.50	2.29	8.0	7.3	92	70 - 130
Toluene	2.50	2.11	9.4	7.9	84	70 - 130
Trichloroethene	2.50	2.40	13	13	96	70 - 130
Chlorobenzene	2.50	1.99	12	9.2	80	70 - 130
1,1-Dichloroethene	2.50	2.55	9.9	10	102	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	70 - 130

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.

975 ~~929~~ 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~~

HYF 200165

№ 8447

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8592 3781 2506
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	Method TO-15	Analysis VOC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C051609				5/16/09	1440	Cell Tower	1			X			0040
SU-G051609				5/16/09	1440	Campground	1			X			93209
SU-S051609				5/16/09	1440	School	1			X			1361
SU-W051609				5/16/09	1440	Wetland	1			X			11408
SU-COG051609				5/16/09	1440	Co-Loc Campground	1			X			6376

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
ON 5-20-09
VIA FEDX #
8592 3781 2506

6 CANS / 6 FLOWS

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5/19/09 1600	[signature]	5-20-09 0930				
[signature]	5/18/09 1600	[signature]					

Comments:

Distributor: White - File; Yellow - Lab

121165

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

Canister Samples Chain of Custody Record

H9F-200165

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

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Client Contact Information
Company: Lawhon & Associates
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 # 07-00821

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		Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SU-C0516 09	5/16/09	1500	1500	-29.0	-4.5	K173	0046	X											
SU-G0516 09	↓	↓	↓	-27.5	-6.0	K458	93209	X											
SU-S0516 09				-27.5	-3.5	K182	1361	X											
SU-W0516 09				-29.0	-2.0	K308	11408	X											
SU-COG051609	↓	↓	↓	-28.5	0	K168	6376	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return Can # 12165, can was open when received.

Canisters Shipped by: [signature]	Date/Time: 1600 5/19/09	Canisters Received by:
Samples Relinquished by: [signature]	Date/Time: 5/18/09 1600	Received by: [signature] 5-20-09 09:30
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ **Project:** _____ **Lot Number:** H9E200165

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 SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
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: 5-20-09

QA026R19.doc, 080707

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

June 03, 2009

LABORATORY REPORT

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

Work Order: PSE1063
Project Name: Countywide - Ambient Air
Project Number: Countywide / 07-0082
Date Received: 05/20/09

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 4.9°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: PSE1063
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/20/09
Reported: 06/03/09 13:39

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C051609-01H	PSE1063-01	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
C051609-02H	PSE1063-02	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
C051609-03H	PSE1063-03	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
G051609-01H	PSE1063-04	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
G051609-02H	PSE1063-05	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
G051609-03H	PSE1063-06	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
S051609-01H	PSE1063-07	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
S051609-02H	PSE1063-08	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
S051609-03H	PSE1063-09	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
W051609-01H	PSE1063-10	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
W051609-02H	PSE1063-11	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
W051609-03H	PSE1063-12	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
051609A-H	PSE1063-13	05/16/09	Silica Gel tube, 200/400 mg Specially cleaned
C051609-01A	PSE1063-14	05/16/09	DNPH Silica Gel Tube, 450 mg
C051609-02A	PSE1063-15	05/16/09	DNPH Silica Gel Tube, 450 mg
C051609-03A	PSE1063-16	05/16/09	DNPH Silica Gel Tube, 450 mg
G051609-01A	PSE1063-17	05/16/09	DNPH Silica Gel Tube, 450 mg
G051609-02A	PSE1063-18	05/16/09	DNPH Silica Gel Tube, 450 mg
G051609-03A	PSE1063-19	05/16/09	DNPH Silica Gel Tube, 450 mg
S051609-01A	PSE1063-20	05/16/09	DNPH Silica Gel Tube, 450 mg
S051609-02A	PSE1063-21	05/16/09	DNPH Silica Gel Tube, 450 mg
S051609-03A	PSE1063-22	05/16/09	DNPH Silica Gel Tube, 450 mg
W051609-01A	PSE1063-23	05/16/09	DNPH Silica Gel Tube, 450 mg
W051609-02A	PSE1063-24	05/16/09	DNPH Silica Gel Tube, 450 mg
W051609-03A	PSE1063-25	05/16/09	DNPH Silica Gel Tube, 450 mg
051609A-A	PSE1063-26	05/16/09	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: PSE1063 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/20/09 Reported: 06/03/09 13:39	

ANALYTICAL REPORT

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

Sample ID: PSE1063-14 (C051609-01A) **Tube** **Sample Air Volume:205.44L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000146	<0.00002661	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.92	0.02395	0.01329	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.235	0.001144	0.0006349	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.68	0.02278	0.01264	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	0.677	0.003295	0.001387	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000146	<0.00006368	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.563	0.00274	0.0006314	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.948	0.004614	0.001565	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000146	<0.00005094	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.44	0.007009	0.005707	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0765	0.0003724	0.0003032	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.36	0.00662	0.00539	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.19	0.01066	0.002602	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000146	<0.00004145	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0902	0.0004391	0.00008935	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.189	0.00092	0.0001872	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.793	0.00386	0.001625	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0399	0.0001942	0.00008176	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.753	0.003665	0.001543	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000146	<0.00002972	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.720	0.003505	0.0009949	IH10	5/24/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE1063-15 (C051609-02A) **Tube** **Sample Air Volume:168L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001786	<0.00003254	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	1.47	0.00875	0.004857	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0787	0.0004685	0.00026	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.39	0.008274	0.004592	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	0.838	0.004988	0.0021	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001786	<0.00007788	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.230	0.001369	0.0003154	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.390	0.002321	0.0007871	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001786	<0.00006229	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.623	0.003708	0.003019	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0701	0.0004173	0.0003397	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.553	0.003292	0.00268	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.738	0.004393	0.001072	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001786	<0.00005069	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0848	0.0005048	0.0001027	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.113	0.0006726	0.0001369	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.232	0.001381	0.0005813	IH10	5/24/2009	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: PSE1063 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/20/09 Reported: 06/03/09 13:39	

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE1063-15 (C051609-02A) - cont.	**Tube**		**Sample Air Volume:168L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
p-Tolualdehyde	<0.0300	<0.0001786	<0.00003634	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.223	0.001327	0.0003768	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE1063-16 (C051609-03A)	**Tube**		**Sample Air Volume:213.6L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001404	<0.00002559	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	3.91	0.01831	0.01016	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.101	0.0004728	0.0002625	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	3.81	0.01784	0.0099	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	2.51	0.01175	0.004947	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.467	0.002186	0.0009204	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.04	0.009551	0.004021	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001404	<0.00006125	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.265	0.001241	0.0002858	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.966	0.004522	0.001533	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001404	<0.00004899	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.20	0.005618	0.004574	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0985	0.0004611	0.0003755	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.10	0.00515	0.004193	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.13	0.00529	0.001291	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Back	0.0469	0.0002196	0.0000536	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Front	1.08	0.005056	0.001234	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001404	<0.00003987	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0647	0.0003029	0.00006164	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.161	0.0007537	0.0001534	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.562	0.002631	0.001108	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back (e)	0.0607	0.0002842	0.0001196	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.501	0.002346	0.0009874	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001404	<0.00002858	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.402	0.001882	0.0005343	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE1063-17 (G051609-01A)	**Tube**		**Sample Air Volume:133.92L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000224	<0.00004082	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.185	0.001381	0.0007668	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0777	0.0005802	0.000322	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.107	0.000799	0.0004435	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.00224	<0.000943	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000224	<0.00009769	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000224	<0.00005161	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0341	0.0002546	0.00008634	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000224	<0.00007814	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.308	0.0023	0.001873	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0687	0.000513	0.0004177	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.239	0.001785	0.001453	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0319	0.0002382	0.00005815	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000224	<0.00006359	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000224	<0.00004559	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0312	0.000233	0.00004741	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.000224	<0.0000943	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000224	<0.00004559	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000224	<0.00006359	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE1063-18 (G051609-02A)	**Tube**		**Sample Air Volume:111.84L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002682	<0.00004888	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.195	0.001744	0.0009678	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0824	0.0007368	0.0004089	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.113	0.00101	0.0005608	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.002682	<0.001129	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002682	<0.000117	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0002682	<0.0000618	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002682	<0.00009095	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002682	<0.00009357	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.255	0.00228	0.001856	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0824	0.0007368	0.0005999	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.173	0.001547	0.001259	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.0002682	<0.00006548	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002682	<0.00007615	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002682	<0.00005459	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0330	0.0002951	0.00006004	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0002682	<0.0001129	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002682	<0.00005459	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0002682	<0.00007615	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Sample ID: PSE1063-19 (G051609-03A) **Tube** **Sample Air Volume:139.68L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002148	<0.00003914	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.191	0.001367	0.000759	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0820	0.0005871	0.0003258	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.109	0.0007804	0.0004331	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	0.645	0.004618	0.001944	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002148	<0.00009367	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0002148	<0.00004948	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002148	<0.00007282	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002148	<0.00007492	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.290	0.002076	0.00169	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0956	0.0006844	0.0005572	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.194	0.001389	0.001131	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0344	0.0002463	0.00006012	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Back (e)	0.0344	0.0002463	0.00006012	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde - Front	<0.0300	<0.0002148	<0.00005243	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002148	<0.00006097	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002148	<0.00004371	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.0002148	<0.00004371	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0002148	<0.00009041	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002148	<0.00004371	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0002148	<0.00006097	IH10	5/24/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE1063-20 (S051609-01A) **Tube** **Sample Air Volume:113.76L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002637	<0.00004805	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.152	0.001336	0.0007416	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0335	0.0002945	0.0001635	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.119	0.001046	0.0005806	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	1.01	0.008878	0.003738	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002637	<0.000115	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0002637	<0.00006076	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002637	<0.00008942	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002637	<0.00009199	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.382	0.003358	0.002734	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0336	0.0002954	0.0002405	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.348	0.003059	0.002491	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0333	0.0002927	0.00007146	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002637	<0.00007486	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002637	<0.00005366	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.0002637	<0.00005366	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0002637	<0.000111	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002637	<0.00005366	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0002637	<0.00007486	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Sample ID: PSE1063-21 (S051609-02A) **Tube** **Sample Air Volume:218.4L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001374	<0.00002503	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.216	0.000989	0.000549	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0844	0.0003864	0.0002145	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.132	0.0006044	0.0003355	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	1.11	0.005082	0.00214	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.568	0.002601	0.001095	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Front	0.545	0.002495	0.001051	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001374	<0.00005991	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0001374	<0.00003165	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0641	0.0002935	0.00009952	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001374	<0.00004792	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.299	0.001369	0.001115	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0891	0.000408	0.0003322	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.210	0.0009615	0.0007829	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.0001374	<0.00003353	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001374	<0.00003899	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001374	<0.00002795	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0309	0.0001415	0.00002879	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0665	0.0003045	0.0001282	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back (e)	0.0359	0.0001644	0.0000692	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.0306	0.0001401	0.00005898	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001374	<0.00002795	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001374	<0.00003899	IH10	5/24/2009	zn	0.0300	EPA TO-11A

Sample ID: PSE1063-22 (S051609-03A) **Tube** **Sample Air Volume:228.96L** **Sampled: 05/16/09**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit ug, Total	Method
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000131	<0.00002388	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.184	0.0008036	0.0004461	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0842	0.0003677	0.0002041	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.100	0.0004368	0.0002424	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	0.539	0.002354	0.000991	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000131	<0.00005714	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.000131	<0.00003019	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000131	<0.00004443	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000131	<0.00004571	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.350	0.001529	0.001245	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0777	0.0003394	0.0002763	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.272	0.001188	0.0009672	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	0.0387	0.000169	0.00004126	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000131	<0.0000372	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000131	<0.00002666	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0321	0.0001402	0.00002853	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0302	0.0001319	0.00005553	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000131	<0.00002666	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE1063-22 (S051609-03A) - cont.	**Tube**		**Sample Air Volume:228.96L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
Valeraldehyde	<0.0300	<0.000131	<0.0000372	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE1063-23 (W051609-01A)	**Tube**		**Sample Air Volume:205.92L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001457	<0.00002655	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	7.24	0.03516	0.01952	IH11, RL7	5/26/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.151	0.0007333	0.000407	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	7.09	0.03443	0.01911	IH11, RL7	5/26/2009	zn	0.300	EPA TO-11A
Acetone	2.35	0.01141	0.004804	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.861	0.004181	0.00176	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.49	0.007236	0.003046	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001457	<0.00006354	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.598	0.002904	0.0006691	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.64	0.007964	0.0027	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001457	<0.00005082	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.87	0.009081	0.007394	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0816	0.0003963	0.0003226	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.79	0.008693	0.007077	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	2.23	0.01083	0.002644	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001457	<0.00004136	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0495	0.0002404	0.00004892	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.221	0.001073	0.0002184	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	1.01	0.004905	0.002065	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001457	<0.00002965	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.746	0.003623	0.001028	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE1063-24 (W051609-02A)	**Tube**		**Sample Air Volume:204L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001471	<0.0000268	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	2.04	0.01	0.005551	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0753	0.0003691	0.0002049	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	1.96	0.009608	0.005333	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	1.91	0.009363	0.003941	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.402	0.001971	0.0008296	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Front	1.51	0.007402	0.003116	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001471	<0.00006413	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.387	0.001897	0.0004371	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	0.594	0.002912	0.0009873	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001471	<0.0000513	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.846	0.004147	0.003376	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0771	0.0003779	0.0003077	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.769	0.00377	0.003069	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.04	0.005098	0.001244	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001471	<0.00004175	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Analyte	Result			Qual	Date Analyzed	Analyst	Rpt Limit	Method
Sample ID: PSE1063-24 (W051609-02A) - cont.	**Tube**		**Sample Air Volume:204L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
m-Tolualdehyde	<0.0300	<0.0001471	<0.00002993	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.132	0.0006471	0.0001317	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.310	0.00152	0.0006397	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001471	<0.00002993	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.300	0.001471	0.0004175	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Sample ID: PSE1063-25 (W051609-03A)	**Tube**		**Sample Air Volume:189.6L**				**Sampled: 05/16/09**	
	ug, Total	mg/m3	ppm				ug, Total	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001582	<0.00002883	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	4.21	0.0222	0.01232	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0922	0.0004863	0.0002699	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	4.12	0.02173	0.01206	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	2.60	0.01371	0.005773	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.505	0.002664	0.001121	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acetone - Front	2.10	0.01108	0.004663	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001582	<0.000069	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	0.358	0.001888	0.000435	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	1.10	0.005802	0.001967	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001582	<0.0000552	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	1.27	0.006698	0.005454	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0912	0.000481	0.0003916	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.18	0.006224	0.005067	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	1.10	0.005802	0.001416	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001582	<0.00004492	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001582	<0.0000322	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.189	0.0009968	0.0002029	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	0.515	0.002716	0.001143	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Back	0.0384	0.0002025	0.00008526	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde - Front	0.477	0.002516	0.001059	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001582	<0.0000322	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	0.423	0.002231	0.0006333	IH10	5/24/2009	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: PSE1063-26 (051609A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 05/16/09**	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde	0.143	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0666	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.0766	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Acetone	<0.300	--	--	IH10	5/24/2009	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde	0.163	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0606	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.102	--	--	IH11	5/24/2009	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/24/2009	zn	0.0300	EPA TO-11A

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

Inorganic Acids by NIOSH 7903 (Modified)

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSE1063-01 (C051609-01H)		**Tube**		**Sample Air Volume:143.04L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01328	<0.008908		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01531	<0.01871		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-02 (C051609-02H)		**Tube**		**Sample Air Volume:151.2L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01257	<0.008427		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01448	<0.0177		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-03 (C051609-03H)		**Tube**		**Sample Air Volume:145.92L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01302	<0.008732		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01501	<0.01834		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-04 (G051609-01H)		**Tube**		**Sample Air Volume:110.4L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01721	<0.01154		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01984	<0.02424		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-05 (G051609-02H)		**Tube**		**Sample Air Volume:108L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01759	<0.0118		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.02028	<0.02478		5/25/2009	ss	2.19	NIOSH 7903 (MOD)

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Inorganic Acids by NIOSH 7903 (Modified) - cont.

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PSE1063-06 (G051609-03H)		**Tube**		**Sample Air Volume:110.88L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01714	<0.01149		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01975	<0.02413		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-07 (S051609-01H)		**Tube**		**Sample Air Volume:148.32L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01281	<0.00859		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01477	<0.01804		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-08 (S051609-02H)		**Tube**		**Sample Air Volume:181.44L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01047	<0.007022		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01207	<0.01475		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-09 (S051609-03H)		**Tube**		**Sample Air Volume:160.32L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01185	<0.007947		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01366	<0.01669		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-10 (W051609-01H)		**Tube**		**Sample Air Volume:140.16L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01356	<0.009091		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01563	<0.01909		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-11 (W051609-02H)		**Tube**		**Sample Air Volume:144L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01319	<0.008848		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01521	<0.01858		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-12 (W051609-03H)		**Tube**		**Sample Air Volume:132L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	<0.01439	<0.009653		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	<0.01659	<0.02027		5/25/2009	ss	2.19	NIOSH 7903 (MOD)
Sample ID: PSE1063-13 (051609A-H)		**Tube**		**Sample Air Volume:L**			**Sampled: 05/16/09**	
Hydrochloric Acid	<1.90	--	--		5/25/2009	ss	1.90	NIOSH 7903 (MOD)
Hydrofluoric Acid	<2.19	--	--		5/25/2009	ss	2.19	NIOSH 7903 (MOD)

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)						
P9E2229-BLK1						
Formaldehyde	0.1182	IH11	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Formaldehyde - Back	0.06701	IH11	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acetaldehyde	0.08756	IH11	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acetaldehyde - Back	0.06744	IH11	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acrolein	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acrolein - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acetone	<0.300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Acetone - Back	<0.300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Propionaldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Propionaldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Crotonaldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Crotonaldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Butyraldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Butyraldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Benzaldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Benzaldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Isovaleraldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Isovaleraldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Valeraldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Valeraldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
o-Tolualdehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
o-Tolualdehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
m-Tolualdehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
m-Tolualdehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
p-Tolualdehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
p-Tolualdehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Hexaldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Hexaldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
2,5-Dimethyl Benzaldehyde	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
2,5-Dimethyl Benzaldehyde - Back	<0.0300	IH10	ug, Total	P9E2229	P9E2229-BLK1	05-24-2009
Inorganic Acids by NIOSH 7903 (Modified)						
P9E2716-BLK1						
Hydrochloric Acid	<1.90		ug, Total	P9E2716	P9E2716-BLK1	05-25-2009
Hydrochloric Acid - Back	<1.90		ug, Total	P9E2716	P9E2716-BLK1	05-25-2009
Hydrofluoric Acid	<2.19		ug, Total	P9E2716	P9E2716-BLK1	05-25-2009
Hydrofluoric Acid - Back	<2.19		ug, Total	P9E2716	P9E2716-BLK1	05-25-2009

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Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)						

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
P9E2229-DUP1									
Formaldehyde	1.360	1.461	IH11	ug, Total	7.16	10	P9E2229	PSE1063-14	05-26-2009
Acetaldehyde	4.680	4.750	IH11	ug, Total	1.48	10	P9E2229	PSE1063-14	05-26-2009
Acrolein	ND	<0.0300	IH10	ug, Total		10	P9E2229	PSE1063-14	05-26-2009
Acetone	0.6770	0.7018	IH10	ug, Total	3.6	10	P9E2229	PSE1063-14	05-26-2009
Propionaldehyde	0.7530	0.7833	IH10	ug, Total	3.94	10	P9E2229	PSE1063-14	05-26-2009
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2229	PSE1063-14	05-26-2009
Butyraldehyde	0.9480	0.9616	IH10	ug, Total	1.42	10	P9E2229	PSE1063-14	05-26-2009
Benzaldehyde	0.5630	0.5659	IH10	ug, Total	0.514	10	P9E2229	PSE1063-14	05-26-2009
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2229	PSE1063-14	05-26-2009
Valeraldehyde	0.7200	0.7751	IH10	ug, Total	7.37	10	P9E2229	PSE1063-14	05-26-2009
o-Tolualdehyde	0.1890	0.1912	IH10	ug, Total	1.16	10	P9E2229	PSE1063-14	05-26-2009
m-Tolualdehyde	0.09020	0.09411	IH10	ug, Total	4.24	10	P9E2229	PSE1063-14	05-26-2009
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	P9E2229	PSE1063-14	05-26-2009
Hexaldehyde	2.190	2.292	IH10	ug, Total	4.55	10	P9E2229	PSE1063-14	05-26-2009
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	P9E2229	PSE1063-14	05-26-2009
P9E2229-DUP2									
Formaldehyde	0.7690	0.7645	IH11	ug, Total	0.587	10	P9E2229	PSE1063-24	05-24-2009
Acetaldehyde	1.960	1.944	IH11	ug, Total	0.82	10	P9E2229	PSE1063-24	05-24-2009
Acrolein	ND	0.03484	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009
Acetone	1.510	1.503	IH10	ug, Total	0.465	10	P9E2229	PSE1063-24	05-24-2009
Propionaldehyde	0.3100	0.3139	IH10	ug, Total	1.25	10	P9E2229	PSE1063-24	05-24-2009
Crotonaldehyde	ND	0.05257	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009
Butyraldehyde	0.5940	0.5799	IH10	ug, Total	2.4	10	P9E2229	PSE1063-24	05-24-2009
Benzaldehyde	0.3870	0.3701	IH10	ug, Total	4.46	10	P9E2229	PSE1063-24	05-24-2009
Isovaleraldehyde	ND	0.2282	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009
Valeraldehyde	0.3000	0.2950	IH10	ug, Total	1.68	10	P9E2229	PSE1063-24	05-24-2009
o-Tolualdehyde	0.1320	0.1176	IH10	ug, Total	11.5	10	P9E2229	PSE1063-24	05-24-2009
m-Tolualdehyde	ND	0.2551	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009
p-Tolualdehyde	ND	0.09781	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009
Hexaldehyde	1.040	1.015	IH10	ug, Total	2.43	10	P9E2229	PSE1063-24	05-24-2009
2,5-Dimethyl Benzaldehyde	ND	0.09467	IH10	ug, Total	200	10	P9E2229	PSE1063-24	05-24-2009

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date

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LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
P9E2229-BS1								
Formaldehyde	0.45	0.5660	IH11	ug, Total	126%	22-134	P9E2229	05-24-2009
Acetaldehyde	0.45	0.5455	IH11	ug, Total	121%	51-142	P9E2229	05-24-2009
Acrolein	0.45	0.2832	IH10, L2	ug, Total	63%	75-125	P9E2229	05-24-2009
Acetone	0.45	0.6475	IH10, IH5	ug, Total	144%	75-125	P9E2229	05-24-2009
Propionaldehyde	0.45	0.7203	IH10, L1	ug, Total	160%	67-145	P9E2229	05-24-2009
Crotonaldehyde	0.45	0.4260	IH10	ug, Total	95%	66-146	P9E2229	05-24-2009
Butyraldehyde	0.45	0.5272	IH10	ug, Total	117%	56-141	P9E2229	05-24-2009
Benzaldehyde	0.45	0.4849	IH10	ug, Total	108%	57-142	P9E2229	05-24-2009
Isovaleraldehyde	0.45	0.4788	IH10	ug, Total	106%	66-144	P9E2229	05-24-2009
Valeraldehyde	0.45	0.4986	IH10	ug, Total	111%	66-144	P9E2229	05-24-2009
o-Tolualdehyde	0.45	0.4988	IH10	ug, Total	111%	39-130	P9E2229	05-24-2009
m-Tolualdehyde	0.45	0.4745	IH10	ug, Total	105%	73-143	P9E2229	05-24-2009
p-Tolualdehyde	0.45	0.4642	IH10	ug, Total	103%	66-147	P9E2229	05-24-2009
Hexaldehyde	0.45	0.5019	IH10	ug, Total	112%	65-145	P9E2229	05-24-2009
2,5-Dimethyl Benzaldehyde	0.45	0.4764	IH10	ug, Total	106%	75-144	P9E2229	05-24-2009
Inorganic Acids by NIOSH 7903 (Modified)								
P9E2716-BS1								
Hydrochloric Acid	10.3	9.894	IH10	ug, Total	96%	70-130	P9E2716	05-25-2009
Hydrofluoric Acid	10.6	10.85	IH10	ug, Total	102%	70-130	P9E2716	05-25-2009

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
P9E2229-BSD1												
Formaldehyde		0.5751	IH11	ug, Total	0.45	128%	22-134	1.59	20	P9E2229		05-24-2009
Acetaldehyde		0.5588	IH11	ug, Total	0.45	124%	51-142	2.41	20	P9E2229		05-24-2009
Acrolein		0.2895	IH10, L2	ug, Total	0.45	64%	75-125	2.2	20	P9E2229		05-24-2009
Acetone		0.6568	IH10,	ug, Total	0.45	146%	75-125	1.43	20	P9E2229		05-24-2009
Propionaldehyde		0.7405	IH10, L1	ug, Total	0.45	165%	67-145	2.77	20	P9E2229		05-24-2009
Crotonaldehyde		0.4425	IH10	ug, Total	0.45	98%	66-146	3.8	20	P9E2229		05-24-2009
Butyraldehyde		0.5433	IH10	ug, Total	0.45	121%	56-141	3.01	20	P9E2229		05-24-2009
Benzaldehyde		0.5070	IH10	ug, Total	0.45	113%	57-142	4.46	20	P9E2229		05-24-2009
Isovaleraldehyde		0.4959	IH10	ug, Total	0.45	110%	66-144	3.51	20	P9E2229		05-24-2009
Valeraldehyde		0.5131	IH10	ug, Total	0.45	114%	66-144	2.87	20	P9E2229		05-24-2009
o-Tolualdehyde		0.5152	IH10	ug, Total	0.45	114%	39-130	3.23	20	P9E2229		05-24-2009
m-Tolualdehyde		0.4907	IH10	ug, Total	0.45	109%	73-143	3.36	20	P9E2229		05-24-2009
p-Tolualdehyde		0.4791	IH10	ug, Total	0.45	106%	66-147	3.16	20	P9E2229		05-24-2009
Hexaldehyde		0.5156	IH10	ug, Total	0.45	115%	65-145	2.69	20	P9E2229		05-24-2009
2,5-Dimethyl Benzaldehyde		0.4893	IH10	ug, Total	0.45	109%	75-144	2.67	20	P9E2229		05-24-2009
Inorganic Acids by NIOSH 7903 (Modified)												

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LCS Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Inorganic Acids by NIOSH 7903 (Modified)												
P9E2716-BSD1												
Hydrochloric Acid		10.84	IH10	ug, Total	10.3	105%	70-130	9.13	30	P9E2716		05-25-2009
Hydrofluoric Acid		12.37	IH10	ug, Total	10.6	117%	70-130	13.1	30	P9E2716		05-25-2009

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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 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, 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).
IH5	The associated blank media spike recovery was above laboratory acceptance limits, because of background interference present in the media or solvent that was below the reporting limit, but high enough to have an effect on the recovery of the spikes.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
RL7	Sample required dilution due to high concentration of target analyte.

ADDITIONAL COMMENTS