Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010
June 30, 2010

To Fulfill the Requirements Set Forth in Order #7 of the Ohio EPA Director's Findings and Orders Dated September 30, 2009

Republic Services of Ohio II, LLC
Countywide Recycling & Disposal Facility
3619 Gracemont Street SW
East Sparta, Ohio 44262

Prepared by:

Lawhon & Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081

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Countywide Recycling & Disposal Facility (Countywide, CRDF)
Ambient Air Monitoring
2nd Quarter Report - 2010
June 30, 2010
Monitoring Events #162 through #164

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Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010
June 30, 2010

Monitoring Events #162 through #164

1.0 INTRODUCTION

1.1 Current Activities

As described in Section 1.2 below, beginning on Monday May 21, 2007, Lawhon & Associates, Inc., (L&A) has conducted ambient air sampling on behalf of the Counthywide Recycling & Disposal Facility (Countywide) as mandated by Order 5.A. of the Ohio EPA Director's Final Findings and Orders (DFFOs) dated March 28, 2007. This program has been amended per Order 7 of DFFOs (dated September 30, 2009) and by a letter from Chris Korleski, Director, Ohio EPA to Michael Darnell, Division Manager, Countywide (dated January 6, 2010). The following amendments were implemented, effective January 2010:

1. The sampling schedule was changed from one (1) event every six (6) days to one (1) event every month ;
2. The sampling and analysis for Hydrogen Fluoride and Hydrogen Chloride were eliminated; and
3. The reporting requirement was changed from Monthly to Quarterly.

This report is the second quarterly report to be developed for the project, (2nd Quarter Report – 2010) and summarizes the results from the following Community Monitoring Events:

- **Event #162: Conducted from Wednesday, April 7 to Thursday, April 8, 2010**
- **Event #163: Conducted from Tuesday, May 4 to Wednesday, May 5, 2010**
- **Event #164: Conducted from Wednesday, June 2 to Thursday, June 3, 2010**

No modifications have been made to the sampling system during the time period reflected in this Quarterly report. Previous reports describe modifications that have been made to the sampling apparatus and sampling protocol to minimize/eliminate sources of variability in the results.

1.2 Sampling Locations

L&A conducted sampling at four community locations as noted on the following map:

A. Bolivar School (S)
B. Campground (G)
C. Wetlands (W)
D. Cell Tower (C)

Unless otherwise indicated, L&A deployed the samplers at each of the locations and set the sampler controllers to begin collecting samples at 3:00pm on the date of deployment. Samples were collected for 24 consecutive hours with the controller stopping sample collection at 3:00pm the following day. On a rotating basis, L&A collected an additional sample from one of the locations (co-located) and submitted that sample for analysis.

Aerial photo of Countywide w/monitoring locations

1.3 Background

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

- Volatile Organic Compounds (VOCs): EPA Method TO-15, modified
- Sulfur Compounds: EPA Method TO-15 modified
- Aldehydes and Ketones: EPA Method TO-11A
- Hydrogen Fluoride and Hydrogen Chloride: NIOSH Method 7903 (this sampling and analysis was suspended after Sampling Event #159)

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.

1.4 Benchmark Concentrations for Comparison

In order to identify ambient air conditions that may be of concern, results from the community monitoring sample analyses are compared to three different conservative, risk-based concentrations for compounds in air in non-occupational settings. The most conservative (lowest) comparison is the 2009 USEPA Regional Screening Level (RSL) which (with this report) has replaced the formerly-used Region 9 Preliminary Remedial Goals (PRGs) used in previous reports. Secondly, when available, we have compared the results to the Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs). Thirdly, we added a comparison of the results to the recently-developed (September 2009) USEPA Individual Sample Screening Levels (ISLs) developed in conjunction with 2009 School Air Toxics Monitoring Initiative. To support the School Air Toxics program, the USEPA has recently published ISLs for both Hazardous Air Pollutants (HAPs) and non-HAP compounds in air. The differences between these screening levels are briefly discussed below.

Many of the compounds that are detected in these monitoring events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived RSL (0.31 ug/m^3) is lower than the laboratory reporting limit (0.64 ug/m^3) and 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 RSLs is not uncommon and may simply reflect fluctuations in background sources.

The community monitoring is conducted to support an evaluation of the potential for the Countywide Landfill to be a source of unacceptable levels of airborne constituents. However, the detection of low levels of constituents in ambient air does not necessarily indicate that these constituents have the landfill as their source.

USEPA Regional Screening Levels (RSLs): In December 2009, USEPA toxicologists and risk assessors published a list of Regional Screening Levels (RSLs) that harmonized the risk-based media concentrations across all of the USEPA Regions. These RSLs replace the individual USEPA Region PRGs, including those previously published by USEPA Region 9 and used as benchmarks in previous Countywide reports. The latest generic screening levels published in May 2010 by the USEPA were used for comparison in this report. For the compounds of interest in the community monitoring, there is very little difference between the RSLs and the Region 9 PRGs previously used for comparison. From this point forward, analytical results will be compared to the compound-specific RSL for residential air. A compound-specific USEPA RSL is the concentration of a compound in the ambient air that is estimated to be without significant risk to a person who would breathe exactly that level of compound continuously over a lifetime of exposure. RSLs 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. RSLs are generally accepted as extremely conservative **screening** values such that even over a lifetime of exposure, if the concentration of a compound in the air is less than the corresponding RSL for residential air, 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 RSL **does not** mean that there is an unacceptable risk to public health.

ATSDR MRLs: Analytical results are also compared to the ATSDR Acute and Chronic Minimal Risk Levels (MRLs), where available. An 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. Acute MRLs are considered protective for short-term exposures (up to 14 consecutive days of exposure at the specified level). Chronic MRLs are considered to be protective for long-term exposures (greater than one year).

USEPA Air Toxics Screening Levels: In 2009, in conjunction with the School Air Toxics Monitoring Initiative, USEPA developed Individual Sample Screening Levels (ISLs) that are used to evaluate concentrations measured in ambient air in the vicinity of schools. The ISLs were derived from several sources, including (in order of preference): ATSDR Acute MRLs, ATSDR Intermediate or Chronic MRLs, IRIS Chronic Reference Concentrations (RfCs), and USEPA Office of Air Quality Planning and Standards (OAQPS) Inhalation Unit Risk Factors (IURs). The individual sample screening levels represent short-term (or intermediate-term) duration inhalation exposure estimates that are unlikely to be associated with appreciable risk of adverse health effects for continuously exposed populations (including sensitive groups [e.g., students]). (*Schools Air Toxics Monitoring Activity, Uses of Health Effects Information in Evaluating Sample Results 9/10/09*, *http://www.epa.gov/schoolair/pdfs/UsesOfHealthEffectsInfoinEvalSampleResults.pdf*).

Neither RSLs, nor MRLs, nor Individual Sample Screening Levels (ISLs) represent levels of exposure which have been documented to cause actual health effects. Although the duration of exposure considered to be "short-term" is not expressly described, the use of Acute MRLs in the development of these screening levels suggests that a 14-day exposure duration is appropriate for acute exposure benchmarks.

1.5 Report Organization

For this report, most of the compounds that were either not detected or detected at levels below RSLs, MRLs, or Individual Screening Levels (ISLs) 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. Section 4.0 includes a summary of results and a comparison of compounds analyzed during community monitoring to the EPA ISLs. Analytical results from the laboratory are provided in the Appendices.

2.0 AMBIENT CONDITIONS

The descriptions of ambient conditions are taken from the Akron-Canton Regional Airport (KCAK). The wind direction information was analyzed using wind rose plots for the sample period. These wind rose plots are compared to the location of the individual sampler relative to Countywide landfill to determine whether the sample location was nominally upwind, crosswind, or downwind of the Site. Wind rose plots illustrating the ambient conditions for the three sampling events of this quarter are included on the following pages. Based on ambient conditions L&A designated the prevailing wind direction for each monitoring station relative to the landfill as:

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

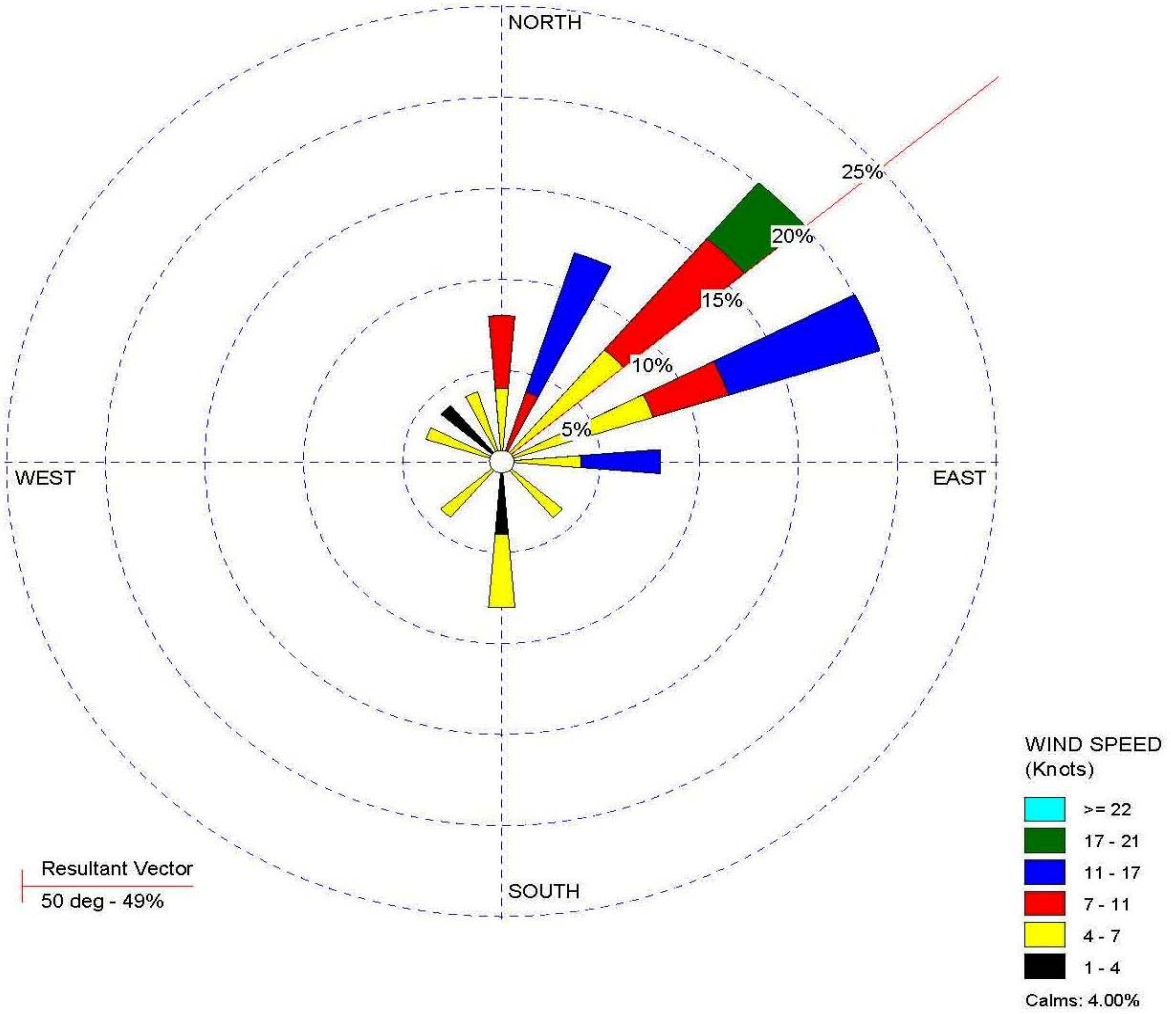
In Tables 1 through 6 and the TO-15 tables (Appendix D), wind direction is indicated for the first and second days of the regularly scheduled monitoring event separated by a right slash ("/").

WIND ROSE PLOT:

Countywide Community Ambient Air Monitoring - Event #162
3:00 pm Tuesday May 4 thru 3:00 pm Wednesday May 5, 2010

DISPLAY:

Wind Speed
Flow Vector (blowing to)



COMMENTS:

April 7, 2010
Temp (F): Avg. 70.9
Min.. 63
Max. 77
Relative Humidity: 53.2%
Dew Point (F): 53
Precipitiation (In): 0.00
April 8, 2010
Temp (F): Avg. 56.8
Min. 50
Max. 63
Relative Humidity: 81.1%
Dew Point (F): 51
Precipitation (In): 0.20

CALM WINDS:

4.00%

AVG. WIND SPEED:

8.09 Knots

COMPANY NAME:

Lawhon and Associates

MODELER:

C LaLonde

DATE:

6/24/2010

PROJECT NO.: 07-0082

07-0082

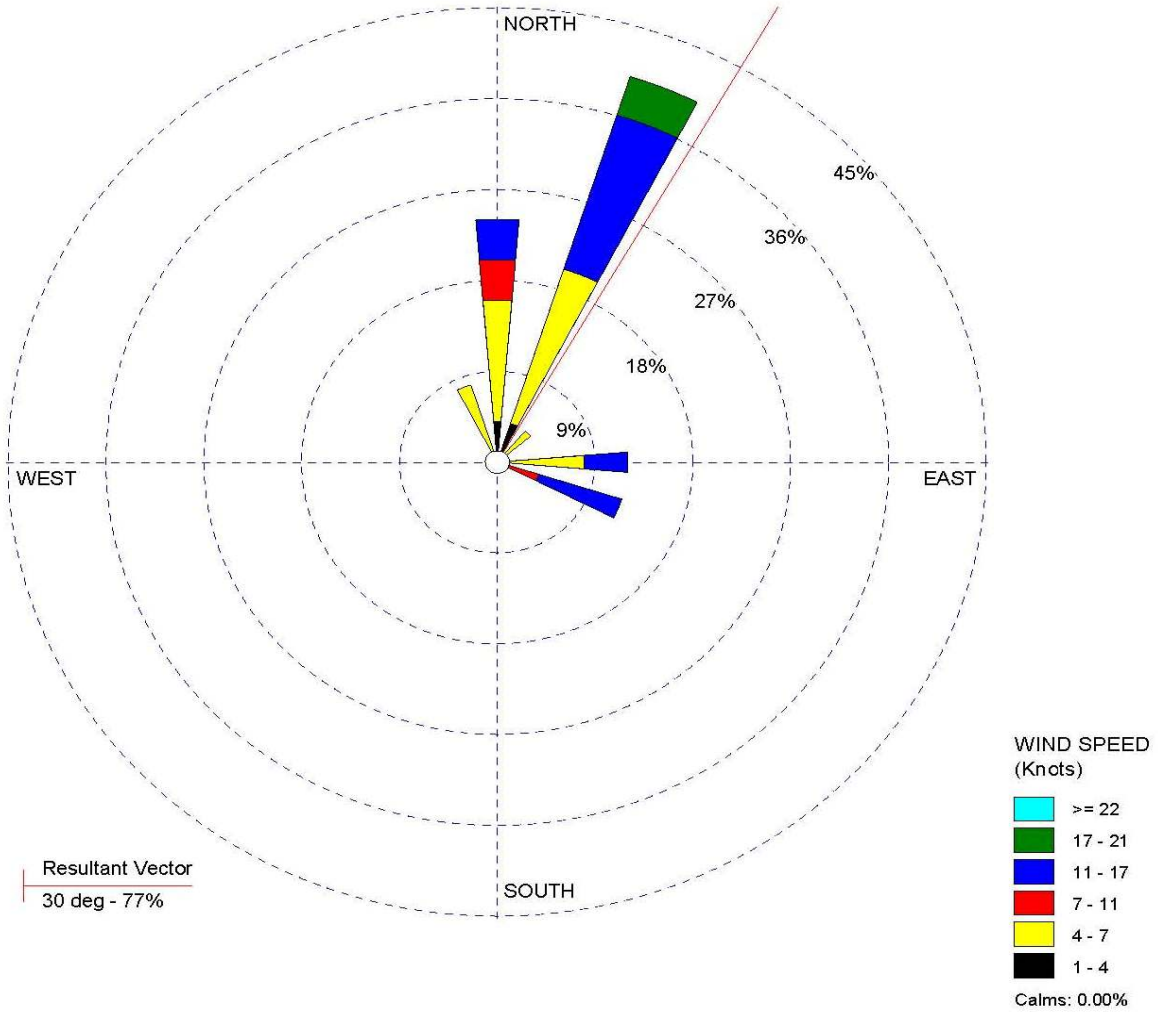
WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Countywide Community Ambient Air Monitoring - Event #163
3:00 pm Tuesday May 4 thru 3:00 pm Wednesday May 5, 2010

DISPLAY:

Wind Speed
Flow Vector (blowing to)



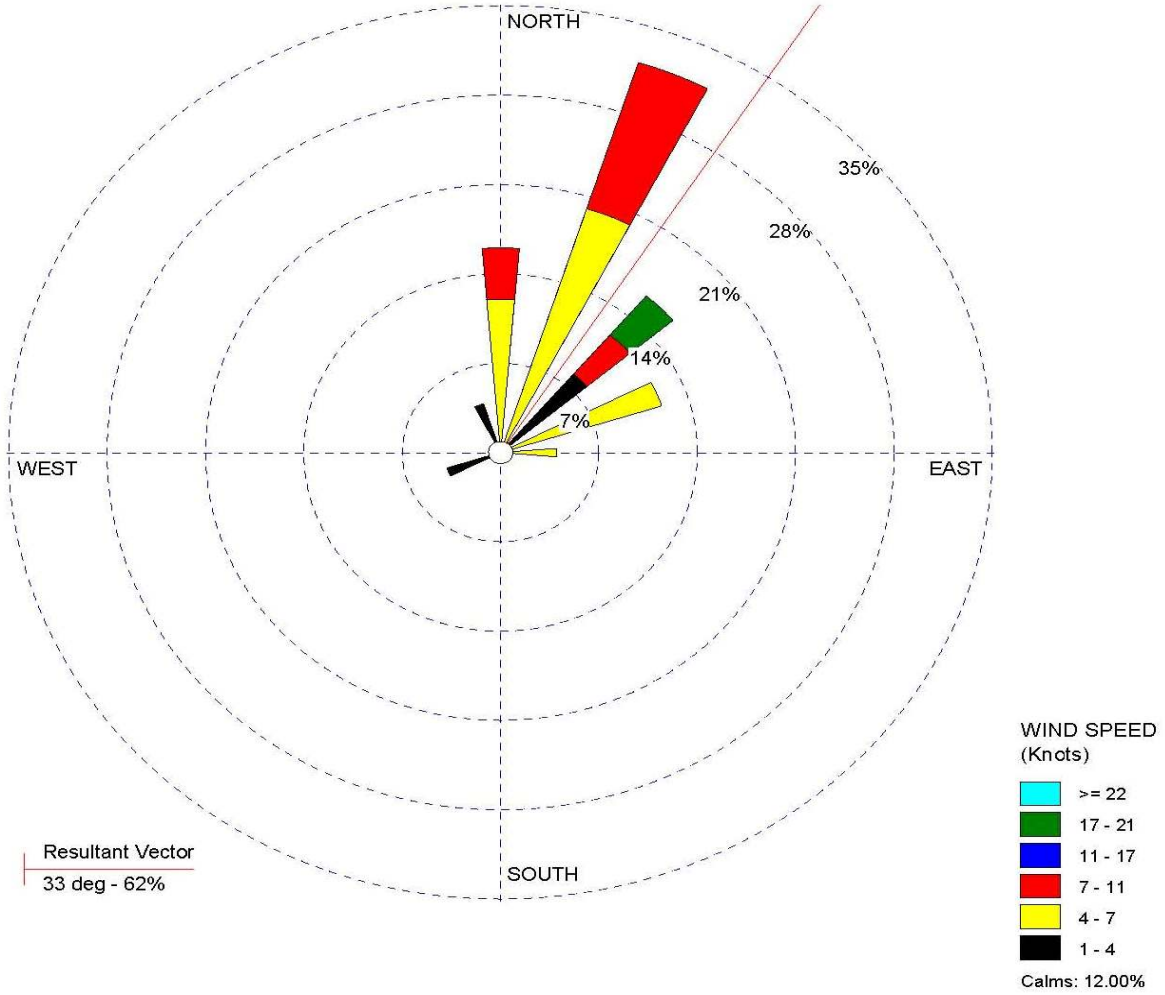
COMMENTS:		COMPANY NAME:	
May 4, 2010 Temp (F): Avg.65.9 Min.. 59 Max. 71 Relative Humidity: 53.2% Dew Point (F): 42 Precipitiation (In): 0.00 May 5, 2010 Temp (F): Avg. 62.6 Min. 51 Max. 79 Relative Humidity: 56.0% Dew Point (F): 46 Precipitation (In): 0.00		**Lawhon and Associates**	
		MODELER: **C LaLonde**	
	CALM WINDS: **0.00%**		
	AVG. WIND SPEED: **8.51 Knots**	DATE: **6/24/2010**	PROJECT NO.: 07-0082 **07-0082**

WRPLOT View - Lakes Environmental Software

WIND ROSE PLOT:

Countywide Community Ambient Air Monitoring - Event #164
3:00 pm Wednesday June 2 thru 3:00 pm Thursday June 3, 2010

DISPLAY:
Wind Speed
Flow Vector (blowing to)



COMMENTS:		COMPANY NAME:	
June 2, 2010 Temp (F): Avg. 72.3 Min.. 62 Max. 76 Relative Humidity: 82% Dew Point (F): 66 Precipitiation (In): 0.15 June 3, 2010 Temp (F): Avg. 66.3 Min. 63 Max. 76 Relative Humidity: 92% Dew Point (F): 64 Precipitation (In): Trace		**Lawhon and Associates**	
		MODELER: **C LaLonde**	
	CALM WINDS: **12.00%**		
	AVG. WIND SPEED: **5.58 Knots**	DATE: **6/24/2010**	PROJECT NO.: 07-0082 **07-0082**

WRPLOT View - Lakes Environmental Software

3.0 ANALYTICAL RESULTS

The laboratory analyzed the air samples for an extensive number of compounds in accordance with the approved work plan. Only those results that exceed RSLs will be discussed in the body of this report. Although other compounds may have been detected in a sample, if they were quantified at concentrations below the respective RSL, they are not considered to pose a significant risk and thus were not discussed further in this report. Analytical results from the laboratory are provided in the Appendices.

3.1 Volatile Organic Compounds

Compounds detected above their respective RSLs by Method TO-15 modified (TO-15m) are summarized in Tables 1 through 3. TO-15m analyzes air samples are collected in a SUMMA® canister over a 24-hour period. 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.

As in past events, the only VOCs that are routinely detected above their respective RSLs, are benzene and carbon tetrachloride. The concentrations of these two persistently present VOCs (benzene and carbon tetrachloride) did not exceed their respective Acute/Chronic MRLs or the HAP ISLs in any sample covered by this report. Additionally, the concentrations of the compounds do not indicate any pattern associated with their locations relative to the landfill and thus do not appear to have the landfill as their source. The VOC results are presented in Tables 1 through 3.

Table 1: VOCs Detected Above PRGs
Event #162: Wednesday, April 7 to Thursday, April 8, 2010[1,2]

Compound	Acute MRL	Chronic MRL	RSL	HAP ISL	School	Cell Tower	Camp-ground	Wetland Co-located	
				Prevailing wind direction	C\U	C\C	D\D	D\D	
Benzene	**29**	**10**	0.31	**30**	**0.45J**	**0.38J**	0.30J	**0.34J**	**0.38J**
Carbon tetrachloride	**188**	**188**	0.41	**200**	**0.58J**	**0.56J**	**0.56J**	**0.49J**	**0.53J**

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix A
3. Bold indicates result exceeded USEPA Regional Screening Level for residential air.
4. J = Laboratory Data Qualifier: Estimated concentration below laboratory reporting limit

Table 2: VOCs Detected Above PRGs
Event #163: Tuesday, May 4 to Wednesday, May 5, 2010[1,2]

Compound	Acute MRL	Chronic MRL	RSL	HAP ISL	School	Cell Tower Co-located		Camp-ground	Wetland
				Prevailing wind direction	C\U	C\U		D\D	D\C
Benzene	**29**	**10**	0.31	**30**	**0.65**	**0.33J**	**0.32J**	**0.38J**	**0.37J**
Carbon tetrachloride	**188**	**188**	0.41	**200**	**0.63J**	**0.73J**	**0.68J**	**0.69J**	**0.55J**

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix B
3. Bold indicates result exceeded USEPA Regional Screening Level for residential air.
4. J = Laboratory Data Qualifier: Estimated concentration below laboratory reporting limit

Table 3: VOCs Detected Above PRGs
Event #164: Wednesday, June 2 to Thursday, June 3, 2010[1,2]

Compound	Acute MRL	Chronic MRL	RSL	HAP ISL	School Co-located		Cell Tower	Camp ground	Wetland
				Prevailing wind direction	U\U		U\U	D\D	D\D
Benzene	**29**	**10**	0.31	**30**	0.25J	**0.36J**	0.30J	0.20J	0.22J
Carbon tetrachloride	**188**	**188**	0.41	**200**	**0.54J**	**0.60J**	**0.53J**	**0.59J**	**0.76J**

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix C
3. Bold indicates result exceeded USEPA Regional Screening Level for residential air.
4. J = Laboratory Data Qualifier: Estimated concentration below laboratory reporting limit

3.2 Sulfur Compounds

Carbon disulfide was the only sulfur compound detected during the three (3) sampling events reviewed in this report. When detected, the concentrations of carbon disulfide were extremely low and well below the respective Region 9 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 had ambient air drawn through them sequentially for 8-hours each. Consequently, there are three separate sample results for each location for each monitoring event. These three sample results are combined to calculate a 24-hour average concentration. 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 the constituents most frequently detected and are the aldehyde compounds of greatest potential concern from a public health standpoint. In addition to formaldehyde and acetaldehyde, several other carbonyl compounds were occasionally detected in the samples summarized in this report. 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 Tables 4 through 6, below.

Table 4: Aldehydes
Event #162: Wednesday, April 7 to Thursday, April 8, 2010[1,2]

Aldehyde	HAP ISL	Acute MRL[3]	Chr. MRL[3]	RSL	School			Cell Tower			Campground			Wetland		
				Prevailing wind direction	C\U			C\C			D\D			D\D		
					1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	**90**	NA[4]	NA	1.1	**1.7**	**1.7**	**1.7**	**2.4**	**2.3**	**1.8**	**2.0**	**2.2**	**2.0**	**2.4**	**1.9**	**1.8***
Formaldehyde	**50**	**50**	**10**	0.19	**9.7**	**4.9**	**6.8**	**8.2**	**6.8**	**3.9**	**8.7**	**6.6**	**3.6**	**6.3**	**3.8**	**2.7***

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix A
3. 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
4. NA= Not available
5. Bold indicates concentration exceeded USEPA Regional Screening Level for residential air.

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

Table 5: Aldehydes
Event #163: Tuesday, May 4 to Wenesday, May 5, 2010[1,2]

Aldehyde	HAP ISL	Acute MRL[3]	Chr. MRL[3]	RSL	School			Cell Tower			Campground			Wetland		
Prevailing wind direction					C\U			C\U			D\D			D\C		
					1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	**90**	NA[4]	NA	1.1	**1.8**	**1.4**	**2.7**	**2.1**	**2.0**	**3.2**	0.12	0.21	**1.3**	**2.3**	**0.98**	**3.1**
Formaldehyde	**50**	**50**	**10**	0.19	**9.4**	**3.0**	**14.5**	**5.8**	**4.4**	**5.8**	**0.93***	**1.0***	**3.2**	**7.4**	**2.4***	**5.9**

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix B.
3. 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
4. NA= Not available
5. Bold indicates concentration exceeded USEPA Regional Screening Level for residential air.

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

Table 6: Aldehydes
Event #164: Wednesday, June 2 to Thursday, June 3, 2010[1,2]

Aldehyde	HAP ISL	Acute MRL[3]	Chr. MRL[3]	RSL	School			Cell Tower			Campground			Wetland		
Prevailing wind direction					U\U			U\U			D\D			D\D		
					1	2	3	1	2	3	1	2	3	1	2	3
Acetaldehyde	**90**	NA[4]	NA	1.1	**2.1**	1.1	**2.0**	**2.5**	**2.1**	**2.8**	**1.8**	**2.1**	**3.7**	**2.4**	**1.2**	**2.6**
Formaldehyde	**50**	**50**	**10**	0.19	**14.9**	**0.8***	**6.5**	**10.4**	**6.9**	**7.2**	**13.4**	**6.7**	**9.5**	**10.2**	**5.4**	**6.3**

1. All units are in (ug/m^3)
2. Laboratory Analytical Results are in Appendix C.
3. 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
4. NA= Not available
5. Bold indicates concentration exceeded USEPA Regional Screening Level for residential air. 5. NS=Not sampled due to pump failure

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

4.0 SUMMARY AND DISCUSSION

4.1 Volatile Organic Compounds

None of the concentrations of any of the detected VOC analytes exceeded their respective Acute/Chronic MRL or the HAP Individual Sample Screening Levels, irrespective of the potential source(s). All of the reported benzene concentrations were within the range of background levels reported in the literature and by other investigators. The concentration of benzene detected from the 15 samples collected from April 7, 2010 to June 3, 2010 ranged from 0.20 ug/m^3 to 0.65 ug/m^3 (mean 0.35 ug/m^3); ***these concentrations are below the average background concentration in ambient air in Ohio (Ohio EPA, Portsmouth Ohio Air Quality Study 2003) and comparable to values reported in recent previous reports.*** There are no apparent trends over time or any apparent correlation of concentrations with the sampling site relative position to the landfill.

As mentioned in previous Monthly Reports, there are numerous local and area sources of compounds, including lawn mowing, emissions from the heavy equipment working on the nearby expansion area of the landfill, motor vehicles on nearby roads and Interstate 77, the Marathon refinery on the south side of Canton, vehicles on the landfill, 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 (irrespective of wind direction) indicate that, like benzene, it is present in background air not related to the landfill emissions. The carbon tetrachloride results (n=15 samples; range 0.49ug/m^3 to 0.76 ug/m^3; mean 0.60 ug/m^3) are similarly low and present in regional airshed background. ***In summary, the monitoring did not detect any incremental amounts of any VOCs that can reliably be attributed to the landfill.***

Note: The two compounds, benzene and carbon tetrachloride, that were measured at concentrations (or estimated concentrations as designated by a "J" qualifier) above their RSLs for residential air (0.31 ug/m^3 and 0.41 ug/m^3, respectively) have RSLs that are below the laboratory reporting limit (0.64 ug/m^3 and 1.3 ug/m^3, respectively) for these compounds. Consequently, any quantifiable detection of these compounds will exceed the highly conservative RSLs for residential air. Given these compounds presence in quantifiable concentrations in background air, the ATSDR MRLs and the USEPA HAP ISLs provide a more realistic basis of comparison. ***No VOC constituent from any of the 15 samples analyzed in these events exceeded (or even approached) their respective acute or chronic ATSDR MRL or their USEPA HAP ISL.***

4.2 Aldehydes (Carbonyl Compounds)

Formaldehyde and acetaldehyde were detected at all community sampling locations. The RSLs for formaldehyde and acetaldehyde in residential air, (0.19 ug/m^3 and 1.1 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 RSL. Therefore, when available, the ATSDR Acute/Chronic MRLs and the USEPA HAP ISLs for formaldehyde and acetaldehyde were considered to be more appropriate benchmarks for interpreting the analytical results.

None of the twelve (12) daily formaldehyde samples exceeded the ATSDR Acute MRL (50 ug/m^3 for exposures up to 14 days), the ISL (50 ug/m^3), nor the Chronic MRL (10 ug/m^3 for long-term exposures). Similarly, ***no acetaldehyde samples (n=12) exceeded the ISL of 90 ug/m^3.***

Additionally, there are no apparent correlations between the sampling locations' orientation to the landfill, prevailing wind (e.g., upwind, downwind, or crosswind), and the concentration of either formaldehyde or acetaldehyde. This indicates that the concentrations of these compounds are derived from other common sources, such as vehicle emissions, fugitive fuel emissions, and ambient air photochemical reactions.

Although previous reports had identified higher concentrations from the first and third sorbent tubes, the sampling results governed by this report showed no significant difference in the concentrations measured in the three tubes. We attribute this change in results to a modification in the sampling apparatus (elimination of tubing). As with the historical benzene results, we believe that meteorological conditions (dew, fog, rain, etc.) can scavenge aldehydes from the ambient air and allow them to be introduced into the sampling equipment at levels that exceed their actual airborne concentrations.

Minimizing the tubing minimizes the potential impact of this process on the sample results.

As noted previously, the density of motor vehicle traffic, the time of day, and meteorological conditions better explain any observed fluctuations in levels of aldehydes than the orientation of the sample location relative to the landfill. Thus, as with the VOCs, ***the monitoring program does not reliably attribute any incremental concentration of aldehydes to landfill activities.***

4.4 Comparison of Airborne Concentrations in the Vicinity of CRDF to EPA-ISLs

As part of an initiative to monitor ambient air conditions near the nation's schools, the USEPA established the Schools Air Toxics Monitoring Initiative. Individual sample screening levels for HAP and non-HAP compounds in air were established using available heath effects information for the specific compounds. The individual sample screening levels represent short to intermediate inhalation exposure estimates that are unlikely to be associated with appreciable health risks for the exposed population (including sensitive subgroups).

L&A reviewed the historical data collected at the Countywide Recycling & Disposal Facility over the past year (January 5, 2010 to June 2, 2010) and compared the findings to the recently published ISLs. The results of this comparison are presented in Table 7 below. This table shows:

- ***The mean annual concentration of each analyte is well-below the respective Individual Sample Screening Level, irrespective of the potential source(s);***
- The mean concentration of these constituents is typically less than 1% of the screening ISLs, again irrespective of the source of the constituents; and
- The maximum 24-hour concentration of each constituent did not exceed any of the ISLs at any time over the past year.

Table 7: Comparison of Airborne Concentrations in the Vicinity of CRDF to ISL's[1,2,3]

VOC HAP Analytes and EPA Method TO-15m Analytes	ISL[4]	Max Conc. Detected At CRDF[5]	Mean Conc. Detected At CRDF	Mean Conc. As % of ISL	ISL Derivation
Benzene[6]	30	1.30	0.61	2.040%	Acute MRL[7]
1,3-Butadiene	***20***	0.44	0.44	2.200%	Acute MRL
Benzyl Chloride (2-Chlorotoluene)	***140***	1.05	1.05	0.750%	IUR[8]
Carbon Disulfide	7,000	6.80	0.76	0.011%	Chron. RfC[9]
Carbon Tetrachloride	200	0.76	0.53	0.267%	Inter. MRL
Chlorobenzene	10,000	0.46	0.46	0.005%	Chron. REL[10]
Chloroform	500	0.54	0.46	0.092%	Acute MRL
1,4-Dichlorobenzene	10,000	0.60	0.60	0.006%	Acute MRL
1,3-Dichloropropene	40	0.46	0.46	1.138%	Inter. MRL
Ethyl Benzene	40,000	0.46	0.43	0.001%	Acute MRL
Chloroethane (Ethyl Chloride)	40,000	0.38	0.24	0.001%	Acute MRL
Ethylene Dibromide (1,2-Dibromoethane)	12	0.75	0.75	6.250%	IUR
Ethylene Dichloride (1,2-Dichloroethane)	270	2.80	0.48	0.178%	IUR
Ethylidene Dichloride (1,1-Dichloroethane)	4,400	0.41	0.40	0.009%	Chron. RfC
Hexachlorobutadiene	320	5.50	5.50	1.719%	IUR
Bromomethane (Methyl Bromide)	200	0.39	0.38	0.191%	Acute MRL
Chloromethane (Methyl chloride)	1,000	1.90	1.41	0.141%	Acute MRL
1,1,1-Trichloroethane (methyl chloroform)	10,000	0.55	0.54	0.005%	Acute MRL
Methyl Isobutyl Ketone	30,000	2.90	0.72	0.002%	Chron. RfC
Methyl Tert-Butyl Ether	7,000	1.80	1.80	0.026%	Acute MRL
Methylene Chloride (Dichloromethane)	2,000	6.50	1.28	0.064%	Acute MRL
Propylene Dichloride (1,2-dichloropropane)	200	0.46	0.46	0.230%	Acute MRL
Styrene	9,000	0.43	0.43	0.005%	Acute MRL
1,1,2,2-Tetrachloroethane	120	0.70	0.70	0.583%	IUR
Tetrachloroethene	1,400	1.20	0.70	0.050%	Acute MRL
Toluene	4,000	2.40	1.01	0.025%	Acute MRL
1,2,4-Trichlorobenzene	2,000	3.70	3.70	0.185%	Chron. RfC
1,1,2-Trichloroethane	440	0.55	0.55	0.125%	IUR
Trichloroethylene	10,000	0.79	0.56	0.006%	Acute MRL
Vinyl Chloride	1,000	0.26	0.26	0.026%	Acute MRL
Vinylidene chloride (1,1-dichloroethylene)	80	0.40	0.40	0.494%	Inter. MRL
Xylene	9,000	1.70	0.57	0.006%	Acute MRL
Additional (non-HAP) Analytes					
Acetone	62,000	28.00	15.43	0.025%	Acute MRL
cis-1,2-Dichloroethene	800	0.40	0.39	0.049%	Acute MRL
trans-1,2-Dichloroethene	800	0.40	0.40	0.049%	Acute MRL
2-Butanone (MEK)	50,000	6.70	2.74	0.005%	Chron. RfC
1,3-Dichlorobenzene	10,000	0.60	0.60	0.006%	MRL 1,4-DCB
Carbonyl Compounds					
Acetaldehyde	90	2.53	1.65	1.830%	Chron. RfC
Acrolein	7	0.02	0.02	0.214%	Acute MRL
Formaldehyde	50	9.87	4.33	8.668%	Acute MRL
Propionaldehyde	80	0.99	0.52	0.648%	Chron. RfC

1. All units ug/m^3
2. Used ½ times the limit of detection for non-detected constituents
3. Concentrations from community sampling - conducted from January 5, 2010 to June 2, 2010
4. ISL – Individual Screening Level
5. CRDF – Countywide Recycling and Disposal Facility
6. Bold and Italic indicates the analyte is a Key HAP Analyte (aka "driver")
7. MRL – Minimal Risk Level – Established by ATSDR
8. IUR – Inhalation Unit Risk Factor – Established by EPA
9. RfC – Chronic Reference Concentration – Established by EPA IRIS
10. REL – Recommended Exposure Limit – Established by NIOSH

4.5 Laboratory Issues

No laboratory issues have been identified 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 of the sampling apparatus removed all flexible tubing from the SUMMA sampling apparatus. This is still the case for the monitoring events presented in this 2nd Quarter Report - 2010. Similarly, since the alteration to the sampling apparatus to minimize the amount of flexible tubing in the aldehyde sampling apparatus, the concentrations of acetaldehyde and formaldehyde have remained at background levels.

We have also developed the following specific conclusions:

- The levels of benzene recorded at the community monitoring locations from April 7, 2010, to June 3, 2010, were very low and well within Ohio background as reported by Ohio EPA (Portsmouth Ohio Air Quality Study, 2003). Additionally, the levels are well below the respective ATSDR MRL and USEPA ISL.
- 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 continues.
- Concentrations of formaldehyde and acetaldehyde from April 7, 2010, to June 3, 2010, were substantially lower than many of the values observed in previous months. The detected concentrations of formaldehyde and acetaldehyde appear to be at background levels and did not exceed or even approach their respective ATSDR Acute MRLs or the USEPA ISLs.
- The average concentrations of formaldehyde and acetaldehyde recorded from all locations from May 21, 2007, through June 3, 2010, are below both the Acute and Chronic ATSDR MRL values as well as the USEPA ISLs.
- Per Order #7 of the Ohio EPA Director's Findings and Orders Dated September 30, 2009, sampling for HCL and HF was discontinued following Event #159.
- There are no trends in concentration of the detected compound with respect to whether the monitoring location was upwind or downwind of the landfill during the monitoring event. This finding indicates that the landfill is not a significant contributor to the concentrations of the constituents found in ambient air.
- This 2nd Quarter Report - 2010 continues to demonstrate that the occurrence of low levels of VOCs and aldehydes in the air of the community surrounding CRDF reflects 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.

- The community monitoring has not reliably identified any incremental concentration of constituents attributable to landfill operations. The found concentrations in ambient air are indicative of local and regional background conditions, irrespective of wind direction relative to the landfill.

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010

June 30, 2010

APPENDIX A. Laboratory Analytical Results from Event #162:
Thursday, April 7, 2010 to Friday, April 8, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H0D130407

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LXVT9	001	SU-C040710	04/07/10	
LXVVA	002	SU-G040710	04/07/10	
LXVVC	003	SU-S040710	04/07/10	
LXVVD	004	SU-W040710	04/07/10	
LXVVF	005	SU-COW040710	04/07/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ANALYTICAL METHODS SUMMARY

H0D130407

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.

PROJECT NARRATIVE
H0D130407

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.

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-C040710

GC/MS Volatiles

Lot-Sample #	H0D130407 - 001	**Work Order #**	LXVT91AA	**Matrix.....:**	AIR

Date Sampled...:	04/07/2010	**Date Received..:**	04/13/2010
Prep Date.....:	04/13/2010	**Analysis Date...**	04/13/2010
Prep Batch #.....:	0104040		
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	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.069**	**0.50**	**0.28**	**J**	**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	**0.11**	**2.0**	**0.33**	**J**	**6.1**
Methylene chloride	**0.26**	**0.50**	**0.91**	**J**	**1.7**
Benzene	**0.12**	**0.20**	**0.38**	**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	**0.16**	**0.20**	**0.60**	**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	**0.064**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.078**	**0.20**	**0.39**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.54**	**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	**0.043**	**0.50**	**0.13**	**J**	**1.6**
Carbon tetrachloride	**0.090**	**0.20**	**0.56**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 001 **Work Order #** LXVT91AA **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	**0.59**	**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	**0.48**	**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	102	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-G040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 002 Work Order # LXVVA1AA Matrix.....: AIR

Date Sampled...: 04/07/2010 Date Received..: 04/13/2010
Prep Date.....: 04/13/2010 Analysis Date... 04/13/2010
Prep Batch #.....: 0104040
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**	**25**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.28**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.097**	**0.50**	**0.40**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.18**	**0.50**	**0.65**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.099**	**2.0**	**0.30**	**J**	**6.1**
Methylene chloride	**0.45**	**0.50**	**1.6**	**J**	**1.7**
Benzene	**0.093**	**0.20**	**0.30**	**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	**0.25**	**0.20**	**0.95**		**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	**0.066**	**0.20**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.12**	**0.20**	**0.58**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.6**	**1.0**	**4.9**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.068**	**0.50**	**0.28**	**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	**0.089**	**0.20**	**0.56**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 002 **Work Order #** LXVVA1AA **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	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	102	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-S040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 003 **Work Order #** LXVVC1AA **Matrix.....:** AIR

Date Sampled...: 04/07/2010 **Date Received..:** 04/13/2010
Prep Date.....: 04/13/2010 **Analysis Date...** 04/13/2010
Prep Batch #.....: 0104040
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**	**28**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.087**	**0.50**	**0.36**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.17**	**0.50**	**0.60**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.045**	**0.50**	**0.21**	**J**	**2.3**
tert-Butyl alcohol	**0.22**	**2.0**	**0.66**	**J**	**6.1**
Methylene chloride	**0.28**	**0.50**	**0.98**	**J**	**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	**0.30**	**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	**0.066**	**0.20**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.21**	**0.20**	**1.0**		**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.081**	**0.20**	**0.35**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.20**	**0.20**	**0.86**		**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**2.3**	**1.0**	**6.7**		**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	**0.054**	**0.50**	**0.17**	**J**	**1.6**
Carbon tetrachloride	**0.091**	**0.20**	**0.58**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 003 **Work Order #** LXVVC1AA **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	**0.059**	**0.20**	**0.16**	**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	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	**0.48**	**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	101	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-W040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 004 Work Order # LXVVD1AA Matrix.....: AIR

Date Sampled...: 04/07/2010 Date Received..: 04/13/2010
Prep Date.....: 04/13/2010 Analysis Date... 04/14/2010
Prep Batch #.....: 0104040
Dilution Factor.: 1 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.4**	**5.0**	**20**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.11**	**0.50**	**0.43**	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	**0.12**	**2.0**	**0.36**	J	**6.1**
Methylene chloride	**0.31**	**0.50**	**1.1**	J	**1.7**
Benzene	**0.11**	**0.20**	**0.34**	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**	**0.89**		**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	**0.065**	**0.20**	**0.50**	J	**1.5**
1,2,4-Trimethylbenzene	**1.4**	**0.20**	**6.7**		**0.98**
1,3,5-Trimethylbenzene	**0.31**	**0.20**	**1.5**		**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	**0.18**	**0.20**	**0.80**	J	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.5**	**1.0**	**4.3**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.081**	**0.50**	**0.33**	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	**0.24**	**0.40**	**1.2**	J	**2.0**
Carbon disulfide	**0.031**	**0.50**	**0.097**	J	**1.6**
Carbon tetrachloride	**0.078**	**0.20**	**0.49**	J	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 004 **Work Order #** LXVVD1AA **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	**0.046**	**0.20**	**0.12**	**J**	**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	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	**0.48**	**0.20**	**2.4**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.067**	**0.20**	**0.27**	**J**	**0.81**
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

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

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-COW040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 005 **Work Order #** LXVVF1AA **Matrix.....:** AIR

Date Sampled...: 04/07/2010 **Date Received..:** 04/13/2010
Prep Date.....: 04/13/2010 **Analysis Date...** 04/14/2010
Prep Batch #.....: 0104040
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	**5.2**	**5.0**	**12**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.25**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.12**	**0.50**	**0.49**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.16**	**0.50**	**0.57**	**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	**0.33**	**0.50**	**1.2**	**J**	**1.7**
Benzene	**0.12**	**0.20**	**0.38**	**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	**0.070**	**0.20**	**0.53**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.61**	**0.20**	**3.0**		**0.98**
1,3,5-Trimethylbenzene	**0.12**	**0.20**	**0.57**	**J**	**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	**0.26**	**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)	**0.61**	**1.0**	**1.8**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	ND	0.50	ND		2.0
Vinyl bromide	ND	0.20	ND		0.87
Bromoform	ND	0.20	ND		2.1
Bromomethane	ND	0.20	ND		0.78
1,3-Butadiene	ND	0.40	ND		0.88
4-Ethyltoluene	ND	0.40	ND		2.0
Carbon disulfide	**0.031**	**0.50**	**0.098**	**J**	**1.6**
Carbon tetrachloride	**0.084**	**0.20**	**0.53**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COW040710

GC/MS Volatiles

Lot-Sample # H0D130407 - 005 **Work Order #** LXVVF1AA **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	**0.74**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.055**	**0.50**	**0.19**	**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	103	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0D140000 - 040B **Work Order #** LXW9R1AA **Matrix.....:** AIR

04/07/2010 **Date Received..:** 04/13/2010
Prep Date.....: 04/13/2010 **Analysis Date...** 04/13/2010
Prep Batch #.....: 0104040
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 # H0D140000 - 040B Work Order # LXW9R1AA Matrix.....: AIR

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

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

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 # H0D140000 - 040C **Work Order #** LXW9R1AC **Matrix.....:** AIR

04/07/2010 **Date Received..:** 04/13/2010

Prep Date.....: 04/13/2010 **Analysis Date...** 04/13/2010

Prep Batch #.....: 0104040

Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	10.0	10.5	45	48	105	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	11.7	70	82	117	60 - 140
Acetone	10.0	10.8	24	26	108	60 - 140
Ethylbenzene	10.0	10.6	43	46	106	70 - 130
Trichlorofluoromethane	10.0	10.1	56	57	101	60 - 140
n-Heptane	10.0	9.96	41	41	100	70 - 130
Hexachlorobutadiene	10.0	9.92	110	110	99	60 - 140
n-Hexane	10.0	9.60	35	34	96	70 - 130
2,2,4-Trimethylpentane	10.0	9.81	47	46	98	70 - 130
tert-Butyl alcohol	10.0	10.4	30	32	104	60 - 140
Methylene chloride	10.0	8.57	35	30	86	70 - 130
Benzene	10.0	9.20	32	29	92	70 - 130
Styrene	10.0	11.5	43	49	115	70 - 130
1,1,2,2-Tetrachloroethane	10.0	11.5	69	79	115	70 - 130
Tetrachloroethene	10.0	9.41	68	64	94	70 - 130
Tetrahydrofuran	10.0	11.4	29	34	114	70 - 130
Toluene	10.0	10.2	38	39	102	70 - 130
1,2,4-Trichlorobenzene	10.0	11.2	74	83	112	60 - 140
1,1,1-Trichloroethane	10.0	9.67	55	53	97	70 - 130
1,1,2-Trichloroethane	10.0	10.8	55	59	108	70 - 130
Trichloroethene	10.0	9.05	54	49	91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.82	77	68	88	70 - 130
1,2,4-Trimethylbenzene	10.0	11.9	49	59	119	70 - 130
1,3,5-Trimethylbenzene	10.0	11.4	49	56	114	70 - 130
Vinyl chloride	10.0	10.3	26	26	103	70 - 130
o-Xylene	10.0	10.7	43	47	107	70 - 130
Methyl tert-butyl ether	10.0	11.4	36	41	114	60 - 140
m-Xylene & p-Xylene	20.0	21.4	87	93	107	70 - 130
Bromodichloromethane	10.0	10.5	67	70	105	70 - 130
1,2-Dibromoethane (EDB)	10.0	10.5	77	81	105	70 - 130
2-Butanone (MEK)	10.0	12.0	29	35	120	60 - 140
4-Methyl-2-pentanone (MIBK)	10.0	12.0	41	49	120	60 - 140
Vinyl bromide	10.0	10.1	44	44	101	60 - 140
Bromoform	10.0	11.7	100	120	117	70 - 130
Bromomethane	10.0	11.0	39	43	110	70 - 130
1,3-Butadiene	10.0	9.87	22	22	99	60 - 140
4-Ethyltoluene	10.0	11.3	49	56	113	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0D140000 - 040C Work Order # LXW9R1AC Matrix.....: AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	10.0	10.6	31	33	106	70 - 130
Carbon tetrachloride	10.0	9.40	63	59	94	70 - 130
Chlorobenzene	10.0	9.78	46	45	98	70 - 130
Dibromochloromethane	10.0	11.1	85	95	111	70 - 130
Chloroethane	10.0	11.2	26	30	112	70 - 130
Chloroform	10.0	9.59	49	47	96	70 - 130
Chloromethane	10.0	10.0	21	21	100	60 - 140
3-Chloropropene	10.0	8.91	31	28	89	70 - 130
2-Chlorotoluene	10.0	10.5	52	54	105	70 - 130
Cyclohexane	10.0	10.3	34	36	103	70 - 130
1,2-Dichlorobenzene	10.0	11.0	60	66	110	70 - 130
1,3-Dichlorobenzene	10.0	10.5	60	63	105	70 - 130
1,4-Dichlorobenzene	10.0	10.5	60	63	105	70 - 130
Dichlorodifluoromethane	10.0	10.3	49	51	103	60 - 140
1,1-Dichloroethane	10.0	9.56	40	39	96	70 - 130
1,2-Dichloroethane	10.0	9.43	40	38	94	70 - 130
1,1-Dichloroethene	10.0	8.93	40	35	89	70 - 130
cis-1,2-Dichloroethene	10.0	9.56	40	38	96	70 - 130
trans-1,2-Dichloroethene	10.0	10.5	40	42	105	70 - 130
1,2-Dichloropropane	10.0	10.3	46	47	103	70 - 130
cis-1,3-Dichloropropene	10.0	10.5	45	48	105	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

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

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

Sample Receipt Documentation

HD013D407

№ 8534

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

~~929~~ 976 Eastwind Drive, Suite ~~211~~ 190
Columbus, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

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

Sent To: Test America (Lab Name)
VIA: Fed EX
Air Bill No.: 8708 8122 7348
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

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

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

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time (Min)	Sample Location	Number of Containers	Turn Around/Requirements	Analysis (Method TO-15 VOC)	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C040710				4/7/10	1440	Cell Tower	1		X			12478
SU-G040710				4/7/10	1440	Campground	1		X			4499 N
SU-S040710				4/7/10	1440	School	1		X			04306
SU-W040710				4/7/10	1440	Wetland	1		X			1456
SU-CW040710				4/7/10	1440	Co-located Wetland	1		X			93132

FED EX # 5US 8122 7348
1 BOX RECD AMBIENT
CUSTODY SEAL INTACT
6 CANS, 6 FLOWS
TS 4/13/10

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	4/12/10 1600					[signature]	4/13/10 10:00
[signature]	4-7-10 830						

Comments:

Distributor: White - File; Yellow - Lab

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

H0D130407

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-C040710	4-7-10	15:00	15:00	-28.5	-3	K347	12478	X											
SU-G040710	↓	↓	↓	-30	0	K308	4499N	X											
SU-S040710				-29	0	K249	04306	X											
SU-W040710				-30+	-3	K188	1456	X											
SU-COW040710				-30+	-4	K388	93132	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (Inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Return can 6116; did not use.

Canisters Shipped by: [signature]	Date/Time: 1600 / 4-12-10	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by:
Relinquished by:	Date/Time:	Received by:

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April 21, 2010

LABORATORY REPORT

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

Work Order:	PTD0726
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	04/13/10
Final Report:	04/21/10 14:17

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 10.8°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: PTD0726
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 04/13/10
Reported: 04/21/10 14:17

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C040710-01A	PTD0726-01	04/07/10	DNPH Silica Gel Tube, 450 mg
C040710-02A	PTD0726-02	04/07/10	DNPH Silica Gel Tube, 450 mg
C040710-03A	PTD0726-03	04/07/10	DNPH Silica Gel Tube, 450 mg
G040710-01A	PTD0726-04	04/07/10	DNPH Silica Gel Tube, 450 mg
G040710-02A	PTD0726-05	04/07/10	DNPH Silica Gel Tube, 450 mg
G040710-03A	PTD0726-06	04/07/10	DNPH Silica Gel Tube, 450 mg
S040710-01A	PTD0726-07	04/07/10	DNPH Silica Gel Tube, 450 mg
S040710-02A	PTD0726-08	04/07/10	DNPH Silica Gel Tube, 450 mg
S040710-03A	PTD0726-09	04/07/10	DNPH Silica Gel Tube, 450 mg
W040710-01A	PTD0726-10	04/07/10	DNPH Silica Gel Tube, 450 mg
W040710-02A	PTD0726-11	04/07/10	DNPH Silica Gel Tube, 450 mg
W040710-03A	PTD0726-12	04/07/10	DNPH Silica Gel Tube, 450 mg
040710A-A	PTD0726-13	04/07/10	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTD0726 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 04/13/10 Reported: 04/21/10 14:17	

ANALYTICAL REPORT

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTD0726-01 (C040710-01A)		**Tube**		**Sample Air Volume:205.92L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001457	<0.00002655	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.505	0.002452	0.001361	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Acetone	1.05	0.005099	0.002147	IH10, IH11	4/16/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001457	<0.00006354	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.236	0.001146	0.0002641	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001457	<0.0000494	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001457	<0.00005082	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.69	0.008207	0.006682	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0526	0.0002554	0.000208	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.64	0.007964	0.006484	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.358	0.001739	0.0004244	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001457	<0.00004136	IH10	4/16/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.107	0.0005196	0.0001057	IH10	4/16/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0975	0.0004735	0.00009635	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.196	0.0009518	0.0004007	IH10	4/16/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001457	<0.00002965	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.138	0.0006702	0.0001902	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-02 (C040710-02A)		**Tube**		**Sample Air Volume:178.56L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000168	<0.00003061	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.411	0.002302	0.001278	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.581	0.003254	0.00137	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000168	<0.00007327	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.164	0.0009185	0.0002116	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000168	<0.00005697	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000168	<0.00005861	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.22	0.006832	0.005563	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0524	0.0002935	0.0002389	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.17	0.006552	0.005335	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.300	0.00168	0.0004101	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000168	<0.00004769	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0664	0.0003719	0.00007567	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0704	0.0003943	0.00008023	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.149	0.0008345	0.0003513	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000168	<0.00003419	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000168	<0.00004769	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-03 (C040710-03A)		**Tube**		**Sample Air Volume:216.48L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001386	<0.00002525	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.386	0.001783	0.0009897	IH10	4/17/2010	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTD0726 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 04/13/10 Reported: 04/21/10 14:17	

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: PTD0726-03 (C040710-03A) - cont.		**Tube**		**Sample Air Volume:216.48L**			**Sampled: 04/07/10** **Prepared: 04/15/10 09:05**	
Acetone	0.314	0.00145	0.0006106	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001386	<0.00006044	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.130	0.0006005	0.0001384	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.105	0.000485	0.0001645	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001386	<0.00004834	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.838	0.003871	0.003152	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0525	0.0002425	0.0001975	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.786	0.003631	0.002956	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.288	0.00133	0.0003248	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001386	<0.00003934	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0590	0.0002725	0.00005546	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0663	0.0003063	0.00006232	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.155	0.000716	0.0003014	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001386	<0.0000282	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001386	<0.00003934	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-04 (G040710-01A)		**Tube**		**Sample Air Volume:257.76L**			**Sampled: 04/07/10** **Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001164	<0.00002121	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.525	0.002037	0.001131	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0311	0.0001207	0.00006697	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.494	0.001917	0.001064	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	1.80	0.006983	0.00294	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.388	0.001505	0.0006337	IH10	4/16/2010	zn	0.300	EPA TO-11A
Acetone - Front	1.41	0.00547	0.002303	IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001164	<0.00005076	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0001164	<0.00002682	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001164	<0.00003946	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001164	<0.0000406	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	2.25	0.008729	0.007107	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0588	0.0002281	0.0001857	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.19	0.008496	0.006918	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.775	0.003007	0.000734	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001164	<0.00003304	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.189	0.0007332	0.0001492	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.132	0.0005121	0.0001042	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.169	0.0006556	0.000276	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001164	<0.00002368	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.188	0.0007294	0.000207	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-05 (G040710-02A)		**Tube**		**Sample Air Volume:198.72L**			**Sampled: 04/07/10** **Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000151	<0.00002751	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.434	0.002184	0.001212	IH10	4/17/2010	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTD0726 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 04/13/10 Reported: 04/21/10 14:17	

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Aldehydes and Ketones by EPA TO-11A (Modified) - cont.								
Sample ID: PTD0726-05 (G040710-02A) - cont.		**Tube**		**Sample Air Volume:198.72L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
Acetone	1.05	0.005284	0.002224	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.351	0.001766	0.0007436	IH10	4/16/2010	zn	0.300	EPA TO-11A
Acetone - Front	0.701	0.003528	0.001485	IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000151	<0.00006584	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.171	0.0008605	0.0001983	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000151	<0.00005119	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000151	<0.00005266	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.32	0.006643	0.005408	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0564	0.0002838	0.0002311	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.26	0.006341	0.005162	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.342	0.001721	0.0004201	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000151	<0.00004286	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.116	0.0005837	0.0001188	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0720	0.0003623	0.00007373	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.150	0.0007548	0.0003178	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000151	<0.00003072	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000151	<0.00004286	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-06 (G040710-03A)		**Tube**		**Sample Air Volume:278.88L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001076	<0.0000196	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.565	0.002026	0.001125	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back	0.0319	0.0001144	0.00006349	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.533	0.001911	0.001061	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.407	0.001459	0.0006144	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001076	<0.00004691	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.149	0.0005343	0.0001231	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001076	<0.00003647	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001076	<0.00003753	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.993	0.003561	0.002899	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0598	0.0002144	0.0001746	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.933	0.003346	0.002724	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.307	0.001101	0.0002687	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001076	<0.00003054	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0904	0.0003242	0.00006596	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0605	0.0002169	0.00004415	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.196	0.0007028	0.0002959	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001076	<0.00002189	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001076	<0.00003054	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-07 (S040710-01A)		**Tube**		**Sample Air Volume:152.64L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001965	<0.00003581	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.265	0.001736	0.0009636	IH10	4/17/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTD0726-07 (S040710-01A) - cont.		**Tube**		**Sample Air Volume:152.64L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
Acetone	0.885	0.005798	0.002441	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001965	<0.00008571	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.150	0.0009827	0.0002264	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001965	<0.00006664	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001965	<0.00006856	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.48	0.009696	0.007894	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0571	0.0003741	0.0003046	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.42	0.009303	0.007574	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.279	0.001828	0.0004462	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001965	<0.00005579	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0619	0.0004055	0.00008252	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0737	0.0004828	0.00009825	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0794	0.0005202	0.000219	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001965	<0.00004	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0901	0.0005903	0.0001676	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-08 (S040710-02A)		**Tube**		**Sample Air Volume:211.68L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001417	<0.00002582	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.350	0.001653	0.0009177	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.538	0.002542	0.00107	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001417	<0.00006181	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.143	0.0006755	0.0001556	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0365	0.0001724	0.00005847	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0365	0.0001724	0.00005847	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	<0.0300	<0.0001417	<0.00004805	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001417	<0.00004944	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.04	0.004913	0.004	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0637	0.0003009	0.000245	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.979	0.004625	0.003766	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.208	0.0009826	0.0002399	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001417	<0.00004023	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0812	0.0003836	0.00007806	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0808	0.0003817	0.00007768	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0967	0.0004568	0.0001923	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001417	<0.00002884	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001417	<0.00004023	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-09 (S040710-03A)		**Tube**		**Sample Air Volume:112.32L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002671	<0.00004867	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.192	0.001709	0.0009488	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.457	0.004069	0.001713	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002671	<0.0001165	IH10	4/17/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTD0726-09 (S040710-03A) - cont.		**Tube**		**Sample Air Volume:112.32L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
Benzaldehyde	0.118	0.001051	0.0002421	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0002671	<0.00009056	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002671	<0.00009317	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.765	0.006811	0.005545	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0488	0.0004345	0.0003537	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.716	0.006375	0.00519	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.218	0.001941	0.0004738	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002671	<0.00007582	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0563	0.0005012	0.000102	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0495	0.0004407	0.00008968	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0511	0.000455	0.0001915	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002671	<0.00005435	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0002671	<0.00007582	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-10 (W040710-01A)		**Tube**		**Sample Air Volume:273.12L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001098	<0.00002002	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.644	0.002358	0.001309	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	1.34	0.004906	0.002065	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001098	<0.0000479	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.243	0.0008897	0.000205	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001098	<0.00003724	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001098	<0.00003832	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.73	0.006334	0.005157	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0443	0.0001622	0.0001321	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.69	0.006188	0.005038	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.507	0.001856	0.0004531	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001098	<0.00003118	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001098	<0.00002235	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.126	0.0004613	0.00009388	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.256	0.0009373	0.0003946	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001098	<0.00002235	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.172	0.0006298	0.0001788	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-11 (W040710-02A)		**Tube**		**Sample Air Volume:248.64L**			**Sampled: 04/07/10**	
	ug, Total	mg/m3	ppm				**Prepared: 04/15/10 09:05**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001207	<0.00002199	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.472	0.001898	0.001054	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.639	0.00257	0.001082	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001207	<0.00005262	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.176	0.0007079	0.0001631	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001207	<0.00004091	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001207	<0.00004209	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.933	0.003752	0.003055	IH11	4/17/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTD0726-11 (W040710-02A) - cont.		**Tube**		**Sample Air Volume:248.64L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
Formaldehyde - Back	0.0566	0.0002276	0.0001853	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.876	0.003523	0.002869	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.353	0.00142	0.0003466	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0453	0.0001822	0.00005172	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0950	0.0003821	0.00007775	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.101	0.0004062	0.00008266	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.125	0.0005027	0.0002116	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001207	<0.00002455	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.120	0.0004826	0.000137	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-12 (W040710-03A)		**Tube**		**Sample Air Volume:251.52L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001193	<0.00002173	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.444	0.001765	0.0009798	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0448	0.0001781	0.00009886	IH10	4/16/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.399	0.001586	0.0008805	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.304	0.001209	0.0005088	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001193	<0.00005202	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.124	0.000493	0.0001136	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.111	0.0004413	0.0001496	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001193	<0.00004161	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.667	0.002652	0.002159	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0624	0.0002481	0.000202	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.605	0.002405	0.001958	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.201	0.0007991	0.0001951	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001193	<0.00003386	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001193	<0.00002427	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0572	0.0002274	0.00004628	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.132	0.0005248	0.0002209	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001193	<0.00002427	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001193	<0.00003386	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Sample ID: PTD0726-13 (040710A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 04/07/10**	
							Prepared: 04/15/10 09:05	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Acetone	0.531	--	--	IH10, IH11	4/17/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0711	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.146	--	--	IH11	4/17/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0478	--	--	IH11	4/16/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0985	--	--	IH11	4/17/2010	zn	0.0300	EPA TO-11A

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

Sample ID: PTD0726-13 (040710A-A) - cont. | **Tube** | **Sample Air Volume:L** | **Sampled: 04/07/10** | **Prepared: 04/15/10 09:05**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Hexaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	4/17/2010	zn	0.0300	EPA TO-11A

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

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10D0487-BLK1							
Formaldehyde	0.1024		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Formaldehyde - Back	0.04724		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acetaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acetaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acrolein	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acrolein - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acetone	0.5729		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Acetone - Back	<0.300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Propionaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Propionaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Crotonaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Butyraldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Butyraldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Benzaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Benzaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Isovaleraldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Valeraldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Valeraldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
o-Tolualdehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
m-Tolualdehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
p-Tolualdehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Hexaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
Hexaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10D0487		10D0487-BLK1	04-16-2010

Duplicate

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

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Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10D0487-DUP1									
Formaldehyde	1.640	1.666	IH11	ug, Total	1.57	10	10D0487	PTD0726-01	04-16-2010
Acetaldehyde	0.5050	0.5019	IH10	ug, Total	0.616	10	10D0487	PTD0726-01	04-16-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
Acetone	1.050	1.053	IH11	ug, Total	0.285	10	10D0487	PTD0726-01	04-16-2010
Propionaldehyde	0.1960	0.1926	IH10	ug, Total	1.75	10	10D0487	PTD0726-01	04-16-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
Butyraldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
Benzaldehyde	0.2360	0.2437	IH10	ug, Total	3.21	10	10D0487	PTD0726-01	04-16-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
Valeraldehyde	0.1380	0.1394	IH10	ug, Total	1.01	10	10D0487	PTD0726-01	04-16-2010
o-Tolualdehyde	0.09750	0.09509	IH10	ug, Total	2.5	10	10D0487	PTD0726-01	04-16-2010
m-Tolualdehyde	0.1070	0.1060	IH10	ug, Total	0.939	10	10D0487	PTD0726-01	04-16-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
Hexaldehyde	0.3580	0.3674	IH10	ug, Total	2.59	10	10D0487	PTD0726-01	04-16-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-01	04-16-2010
10D0487-DUP2									
Formaldehyde	0.8760	0.8817	IH11	ug, Total	0.649	10	10D0487	PTD0726-11	04-17-2010
Acetaldehyde	0.4720	0.4497	IH10	ug, Total	4.84	10	10D0487	PTD0726-11	04-17-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-11	04-17-2010
Acetone	0.6390	0.6446	IH11	ug, Total	0.873	10	10D0487	PTD0726-11	04-17-2010
Propionaldehyde	0.1250	0.1241	IH10	ug, Total	0.723	10	10D0487	PTD0726-11	04-17-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-11	04-17-2010
Butyraldehyde	ND	0.1783	IH10	ug, Total	200	10	10D0487	PTD0726-11	04-17-2010
Benzaldehyde	0.1760	0.1765	IH10	ug, Total	0.284	10	10D0487	PTD0726-11	04-17-2010
Isovaleraldehyde	0.04530	0.03666	IH10	ug, Total	21.1	10	10D0487	PTD0726-11	04-17-2010
Valeraldehyde	0.1200	0.1040	IH10	ug, Total	14.3	10	10D0487	PTD0726-11	04-17-2010
o-Tolualdehyde	0.1010	0.09696	IH10	ug, Total	4.08	10	10D0487	PTD0726-11	04-17-2010
m-Tolualdehyde	0.09500	0.08191	IH10	ug, Total	14.8	10	10D0487	PTD0726-11	04-17-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-11	04-17-2010
Hexaldehyde	0.3530	0.3551	IH10	ug, Total	0.593	10	10D0487	PTD0726-11	04-17-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10D0487	PTD0726-11	04-17-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10D0487-BS1								
Formaldehyde	0.45	0.5270	IH11	ug, Total	117%	22-134	10D0487	04-16-2010
Acetaldehyde	0.45	0.4682	IH10	ug, Total	104%	51-142	10D0487	04-16-2010
Acrolein	0.45	0.3552	IH10	ug, Total	79%	75-125	10D0487	04-16-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10D0487-BS1								
Acetone	0.45	0.8984	IH11, L1	ug, Total	200%	75-125	10D0487	04-16-2010
Propionaldehyde	0.45	0.5171	IH10	ug, Total	115%	67-145	10D0487	04-16-2010
Crotonaldehyde	0.45	0.4028	IH10	ug, Total	90%	66-146	10D0487	04-16-2010
Butyraldehyde	0.45	0.5132	IH10	ug, Total	114%	56-141	10D0487	04-16-2010
Benzaldehyde	0.45	0.4451	IH10	ug, Total	99%	57-142	10D0487	04-16-2010
Isovaleraldehyde	0.45	0.4409	IH10	ug, Total	98%	66-144	10D0487	04-16-2010
Valeraldehyde	0.45	0.4705	IH10	ug, Total	105%	66-144	10D0487	04-16-2010
o-Tolualdehyde	0.45	0.4530	IH10	ug, Total	101%	39-130	10D0487	04-16-2010
m-Tolualdehyde	0.45	0.4541	IH10	ug, Total	101%	73-143	10D0487	04-16-2010
p-Tolualdehyde	0.45	0.4556	IH10	ug, Total	101%	66-147	10D0487	04-16-2010
Hexaldehyde	0.45	0.4659	IH10	ug, Total	104%	65-145	10D0487	04-16-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4605	IH10	ug, Total	102%	75-144	10D0487	04-16-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10D0487-BSD1												
Formaldehyde		0.5222	IH11	ug, Total	0.45	116%	22-134	0.915	20	10D0487		04-16-2010
Acetaldehyde		0.4663	IH10	ug, Total	0.45	104%	51-142	0.407	20	10D0487		04-16-2010
Acrolein		0.3653	IH10	ug, Total	0.45	81%	75-125	2.8	20	10D0487		04-16-2010
Acetone		1.001	IH11, L1	ug, Total	0.45	222%	75-125	10.8	20	10D0487		04-16-2010
Propionaldehyde		0.5074	IH10	ug, Total	0.45	113%	67-145	1.89	20	10D0487		04-16-2010
Crotonaldehyde		0.4134	IH10	ug, Total	0.45	92%	66-146	2.6	20	10D0487		04-16-2010
Butyraldehyde		0.4863	IH10	ug, Total	0.45	108%	56-141	5.38	20	10D0487		04-16-2010
Benzaldehyde		0.4514	IH10	ug, Total	0.45	100%	57-142	1.41	20	10D0487		04-16-2010
Isovaleraldehyde		0.4523	IH10	ug, Total	0.45	101%	66-144	2.55	20	10D0487		04-16-2010
Valeraldehyde		0.4772	IH10	ug, Total	0.45	106%	66-144	1.41	20	10D0487		04-16-2010
o-Tolualdehyde		0.4622	IH10	ug, Total	0.45	103%	39-130	2.01	20	10D0487		04-16-2010
m-Tolualdehyde		0.4535	IH10	ug, Total	0.45	101%	73-143	0.132	20	10D0487		04-16-2010
p-Tolualdehyde		0.4609	IH10	ug, Total	0.45	102%	66-147	1.16	20	10D0487		04-16-2010
Hexaldehyde		0.4677	IH10	ug, Total	0.45	104%	65-145	0.386	20	10D0487		04-16-2010
2,5-Dimethyl Benzaldehyde		0.4637	IH10	ug, Total	0.45	103%	75-144	0.692	20	10D0487		04-16-2010

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CERTIFICATION SUMMARY

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

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

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

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

Samples were analyzed using methods outlined in references such as:

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

Analytical Comments:

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

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

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

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DATA QUALIFIERS AND DEFINITIONS

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

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

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

ADDITIONAL COMMENTS

PTD0726

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

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

~~2115 Freeman Avenue~~
~~Cleveland, OH 44115~~
~~Phone: (216) 737-0700~~
~~Fax: (216) 737-0709~~

№ 8535

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7359
Page 1 of 1

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: Aldehyde (Method TO-11)	Ketone (TO-11)	Carbonyl (TO-11)	Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rate
-01 C040710-01A				4/7/10	480	Cell Tower	1		X	X	X			0.429 l/min
-02 C040710-02A				4/7/10	480	Cell Tower	1		X	X	X			0.372 "
-03 C040710-03A				4/7/10	480	Cell Tower	1		X	X	X			0.451 "
-04 G040710-01A				4/7/10	480	Campground	1		X	X	X			0.537 l/min
-05 G040710-02A				4/7/10	480	Campground	1		X	X	X			0.414 "
-06 G040710-03A				4/7/10	480	Campground	1		X	X	X			0.581 "
-07 S040710-01A				4/7/10	480	School	1		X	X	X			0.318 l/min
-08 S040710-02A				4/7/10	480	School	1		X	X	X			0.441 "
-09 S040710-03A				4/7/10	480	School	1		X	X	X			0.234 "
-10 W040710-01A				4/7/10	480	Wetland	1		X	X	X			0.565 l/min
-11 W040710-02A				4/7/10	480	Wetland	1		X	X	X			0.518 "
-12 W040710-03A				4/7/10	480	Wetland	1		X	X	X			0.524 "
				~~4/7/10~~										
-13 040710A-A				~~4/7/10~~	N/A	Field Blank	1		X	X	X			No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	4/12/10 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	4-9-10 800						4/13/10 930

Comments:

Distributor: White - File; Yellow - Lab

10.8

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010

June 30, 2010

APPENDIX B. Laboratory Analytical Results from Event #163:
Tuesday, May 4, 2010 to Wednesday, May 5, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H0E080403

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L078T	001	SU-C050410	05/04/10	
L078V	002	SU-G050410	05/04/10	
L078W	003	SU-S050410	05/04/10	
L078X	004	SU-W050410	05/04/10	
L0780	005	SU-COC050410	05/04/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H0E080403

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.

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-C050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 001 **Work Order #** L078T1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2010 **Date Received..:** 05/07/2010
Prep Date.....: 05/10/2010 **Analysis Date...** 05/11/2010
Prep Batch #.....: 0131180
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**3.1**	**5.0**	**7.3**	**J**	**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.31**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.23**	**0.50**	**0.93**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.24**	**0.50**	**0.84**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.080**	**2.0**	**0.24**	**J B**	**6.1**
Methylene chloride	**0.37**	**0.50**	**1.3**	**J**	**1.7**
Benzene	**0.10**	**0.20**	**0.33**	**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	**0.30**	**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	**0.31**	**0.20**	**1.5**		**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	**0.19**	**0.20**	**0.81**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.34**	**1.0**	**1.0**	**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	**0.068**	**0.40**	**0.34**	**J**	**2.0**
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.12**	**0.20**	**0.73**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 001 **Work Order #** L078T1AA **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	**0.047**	**0.20**	**0.23**	**J**	**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	**0.068**	**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	**0.51**	**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	99	60 - 140

Qualifiers

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

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-G050410

GC/MS Volatiles

Lot-Sample #	H0E080403 - 002	**Work Order #**	L078V1AA	**Matrix.....:**	AIR
Date Sampled...:	05/04/2010	**Date Received..:**	05/07/2010		
Prep Date.....:	05/10/2010	**Analysis Date...**	05/11/2010		
Prep Batch #.....:	0131180				
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	**7.2**	**5.0**	**17**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.24**	**0.20**	**1.4**		**1.1**
n-Heptane	**0.16**	**0.50**	**0.66**	**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	**0.11**	**2.0**	**0.34**	**J B**	**6.1**
Methylene chloride	**0.16**	**0.50**	**0.55**	**J**	**1.7**
Benzene	**0.12**	**0.20**	**0.38**	**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	**0.21**	**0.20**	**0.78**		**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	**0.087**	**0.20**	**0.43**	**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	**0.15**	**0.20**	**0.64**	**J**	**0.87**
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.4**	**1.0**	**4.0**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.061**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.11**	**0.20**	**0.69**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 002 **Work Order #** L078V1AA **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	**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	**0.50**	**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	99	60 - 140

Qualifiers

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

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-S050410

GC/MS Volatiles

Lot-Sample #	H0E080403 - 003	**Work Order #**	L078W1AA	**Matrix.....:**	AIR
Date Sampled...:	05/04/2010	**Date Received..:**	05/07/2010		
Prep Date.....:	05/10/2010	**Analysis Date...**	05/11/2010		
Prep Batch #.....:	0131180				
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	**7.7**	**5.0**	**18**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.23**	**0.20**	**1.3**		**1.1**
n-Heptane	**0.18**	**0.50**	**0.76**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.32**	**0.50**	**1.1**	**J**	**1.8**
2,2,4-Trimethylpentane	**0.094**	**0.50**	**0.44**	**J**	**2.3**
tert-Butyl alcohol	**0.17**	**2.0**	**0.51**	**J B**	**6.1**
Methylene chloride	**0.14**	**0.50**	**0.49**	**J**	**1.7**
Benzene	**0.20**	**0.20**	**0.65**		**0.64**
Styrene	ND	0.20	ND		0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND		1.4
Tetrachloroethene	**0.047**	**0.20**	**0.32**	**J**	**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	**0.067**	**0.20**	**0.51**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.16**	**0.20**	**0.81**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.099**	**0.20**	**0.43**	**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)	**1.5**	**1.0**	**4.3**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.069**	**0.50**	**0.28**	**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	**0.073**	**0.50**	**0.23**	**J**	**1.6**
Carbon tetrachloride	**0.10**	**0.20**	**0.63**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 003 **Work Order #** L078W1AA **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	**0.041**	**0.20**	**0.11**	**J**	**0.53**
Chloroform	ND	0.20	ND		0.98
Chloromethane	**0.72**	**0.50**	**1.5**		**1.0**
3-Chloropropene	ND	0.20	ND		0.63
2-Chlorotoluene	ND	0.40	ND		2.1
Cyclohexane	**0.070**	**0.50**	**0.24**	**J**	**1.7**
1,2-Dichlorobenzene	ND	0.20	ND		1.2
1,3-Dichlorobenzene	ND	0.20	ND		1.2
1,4-Dichlorobenzene	ND	0.20	ND		1.2
Dichlorodifluoromethane	**0.49**	**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	98	60 - 140

Qualifiers

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

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-W050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 004 **Work Order #** L078X1AA **Matrix.....:** AIR

Date Sampled...: 05/04/2010 **Date Received..:** 05/07/2010
Prep Date.....: 05/10/2010 **Analysis Date...** 05/11/2010
Prep Batch #.....: 0131180
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**10**	**5.0**	**24**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.22**	**0.20**	**1.2**		**1.1**
n-Heptane	**0.13**	**0.50**	**0.53**	J	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.29**	**0.50**	**1.0**	J	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.18**	**2.0**	**0.54**	J B	**6.1**
Methylene chloride	**0.14**	**0.50**	**0.49**	J	**1.7**
Benzene	**0.12**	**0.20**	**0.37**	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**	**0.67**	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	**0.066**	**0.20**	**0.51**	J	**1.5**
1,2,4-Trimethylbenzene	**0.14**	**0.20**	**0.69**	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**	**0.62**	J	**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**	**5.6**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.078**	**0.50**	**0.32**	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	**0.034**	**0.50**	**0.11**	J	**1.6**
Carbon tetrachloride	**0.088**	**0.20**	**0.55**	J	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 004 **Work Order #** L078X1AA **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	**0.045**	**0.20**	**0.12**	**J**	**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	99	60 - 140

Qualifiers

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

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-COC050410

GC/MS Volatiles

Lot-Sample #	H0E080403 - 005	**Work Order #**	L07801AA	**Matrix.....:**	AIR

Date Sampled...:	05/04/2010	**Date Received..:**	05/07/2010
Prep Date.....:	05/10/2010	**Analysis Date...**	05/11/2010
Prep Batch #.....:	0131180		
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**	**28**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.35**	**0.20**	**2.0**		**1.1**
n-Heptane	**0.10**	**0.50**	**0.42**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.99**	**0.50**	**3.5**		**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.059**	**2.0**	**0.18**	**J B**	**6.1**
Methylene chloride	**1.9**	**0.50**	**6.5**		**1.7**
Benzene	**0.10**	**0.20**	**0.32**	**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	**0.065**	**1.0**	**0.19**	**J**	**2.9**
Toluene	**0.47**	**0.20**	**1.8**		**0.75**
1,2,4-Trichlorobenzene	ND	1.0	ND		7.4
1,1,1-Trichloroethane	ND	0.20	ND		1.1
1,1,2-Trichloroethane	ND	0.20	ND		1.1
Trichloroethene	ND	0.20	ND		1.1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.063**	**0.20**	**0.48**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.091**	**0.20**	**0.45**	**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	**0.12**	**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)	**1.2**	**1.0**	**3.5**		**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	**2.2**	**0.50**	**6.8**		**1.6**
Carbon tetrachloride	**0.11**	**0.20**	**0.68**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COC050410

GC/MS Volatiles

Lot-Sample # H0E080403 - 005 **Work Order #** L07801AA **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**	**0.38**	**J**	**0.53**
Chloroform	**0.044**	**0.20**	**0.22**	**J**	**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	**0.042**	**0.50**	**0.14**	**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	**0.51**	**0.20**	**2.5**		**0.99**
1,1-Dichloroethane	ND	0.20	ND		0.81
1,2-Dichloroethane	**0.69**	**0.20**	**2.8**		**0.81**
1,1-Dichloroethene	ND	0.20	ND		0.79
cis-1,2-Dichloroethene	ND	0.20	ND		0.79
trans-1,2-Dichloroethene	ND	0.20	ND		0.79
1,2-Dichloropropane	ND	0.20	ND		0.92
cis-1,3-Dichloropropene	ND	0.20	ND		0.91

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

Qualifiers

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

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

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

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H0E110000 - 180B **Work Order #** L1AW11AA **Matrix.....:** AIR

05/07/2010 **Date Received..:** 05/08/2010
Prep Date.....: 05/10/2010 **Analysis Date...** 05/10/2010
Prep Batch #.....: 0131180
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	**0.040**	**2.0**	**0.12**	**J**	**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 # H0E110000 - 180B **Work Order #** L1AW11AA **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	98	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0E110000 - 180C **Work Order #** L1AW11AC **Matrix.....:** AIR

	05/07/2010	**Date Received..:**	05/08/2010
Prep Date.....:	05/10/2010	**Analysis Date...**	05/10/2010
Prep Batch #.....:	0131180		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	10.0	9.51	45	43	95	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	9.47	70	66	95	60 - 140
Acetone	10.0	9.57	24	23	96	60 - 140
Ethylbenzene	10.0	9.55	43	41	96	70 - 130
Trichlorofluoromethane	10.0	10.9	56	61	109	60 - 140
n-Heptane	10.0	10.3	41	42	103	70 - 130
Hexachlorobutadiene	10.0	10.3	110	110	103	60 - 140
n-Hexane	10.0	10.6	35	38	106	70 - 130
2,2,4-Trimethylpentane	10.0	9.27	47	43	93	70 - 130
tert-Butyl alcohol	10.0	9.92	30	30	99	60 - 140
Methylene chloride	10.0	9.25	35	32	92	70 - 130
Benzene	10.0	8.45	32	27	84	70 - 130
Styrene	10.0	10.9	43	46	109	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.78	69	67	98	70 - 130
Tetrachloroethene	10.0	8.81	68	60	88	70 - 130
Tetrahydrofuran	10.0	9.78	29	29	98	70 - 130
Toluene	10.0	8.47	38	32	85	70 - 130
1,2,4-Trichlorobenzene	10.0	10.6	74	79	106	60 - 140
1,1,1-Trichloroethane	10.0	10.5	55	57	105	70 - 130
1,1,2-Trichloroethane	10.0	8.79	55	48	88	70 - 130
Trichloroethene	10.0	8.63	54	46	86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.2	77	78	102	70 - 130
1,2,4-Trimethylbenzene	10.0	10.8	49	53	108	70 - 130
1,3,5-Trimethylbenzene	10.0	9.83	49	48	98	70 - 130
Vinyl chloride	10.0	9.89	26	25	99	70 - 130
o-Xylene	10.0	9.31	43	40	93	70 - 130
Methyl tert-butyl ether	10.0	8.65	36	31	86	60 - 140
m-Xylene & p-Xylene	20.0	19.4	87	84	97	70 - 130
Bromodichloromethane	10.0	9.38	67	63	94	70 - 130
1,2-Dibromoethane (EDB)	10.0	9.46	77	73	95	70 - 130
2-Butanone (MEK)	10.0	9.67	29	29	97	60 - 140
4-Methyl-2-pentanone (MIBK)	10.0	11.4	41	47	114	60 - 140
Vinyl bromide	10.0	9.43	44	41	94	60 - 140
Bromoform	10.0	11.4	100	120	114	70 - 130
Bromomethane	10.0	9.37	39	36	94	70 - 130
1,3-Butadiene	10.0	10.2	22	22	102	60 - 140
4-Ethyltoluene	10.0	10.8	49	53	108	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0E110000 - 180C **Work Order #** L1AW11AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	10.0	10.2	31	32	102	70 - 130
Carbon tetrachloride	10.0	7.80	63	49	78	70 - 130
Chlorobenzene	10.0	9.26	46	43	93	70 - 130
Dibromochloromethane	10.0	10.0	85	85	100	70 - 130
Chloroethane	10.0	8.97	26	24	90	70 - 130
Chloroform	10.0	9.44	49	46	94	70 - 130
Chloromethane	10.0	10.5	21	22	105	60 - 140
3-Chloropropene	10.0	10.6	31	33	106	70 - 130
2-Chlorotoluene	10.0	9.74	52	50	97	70 - 130
Cyclohexane	10.0	9.55	34	33	95	70 - 130
1,2-Dichlorobenzene	10.0	10.7	60	64	107	70 - 130
1,3-Dichlorobenzene	10.0	10.6	60	63	106	70 - 130
1,4-Dichlorobenzene	10.0	10.7	60	64	107	70 - 130
Dichlorodifluoromethane	10.0	11.0	49	54	110	60 - 140
1,1-Dichloroethane	10.0	9.64	40	39	96	70 - 130
1,2-Dichloroethane	10.0	9.35	40	38	93	70 - 130
1,1-Dichloroethene	10.0	10.1	40	40	101	70 - 130
cis-1,2-Dichloroethene	10.0	9.53	40	38	95	70 - 130
trans-1,2-Dichloroethene	10.0	10.2	40	40	102	70 - 130
1,2-Dichloropropane	10.0	8.63	46	40	86	70 - 130
cis-1,3-Dichloropropene	10.0	9.10	45	41	91	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

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

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

Sample Receipt Documentation

LOT: 080403

№ 8590

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

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

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

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7360

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	Analysis	TO-15 VOC	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C050410				5/4/10	1440	Cell Tower	1				X			1329
SU-G050410				5/4/10	1440	Campground	1				X			1143
SU-S050410				5/4/10	1440	School	1				X			02308
SU-W050410				5/4/10	1440	Wetland	1				X			1303N
SU-CCO050410				5/4/10	1440	Cell Tower-Co-located	1				X			1331N

1 BOX RELEASED AMBIENT
FED EX # 8708 8122 7360
CUSTODY SEAL INTACT
6 CANS, 6 FLOWS
TS 5/7/10

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5-6-10 1200	[signature]	5/7/10 9:45				
[signature]	5/6/10 1600						

Comments:

Distributor: White - File; Yellow - Lab

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

14DE080403

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-C050410	5-4-10	15:00	15:00	-28.5	-5.5	K92	1329	X											
SU-G050410	↓	↓	↓	-28.5	-6.0	K158	1143	X											
SU-S050410				-28.5	-6.0	K374	02308	X											
SU-W050410				-28.5	-5.5	K114	1303N	X											
SU-COC050410				-28.5	-6.0	K222	1331N	X											

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (Inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Return Can #04186; did not use.

Canisters Shipped by:	Date/Time: 5/6/10 1600	Canisters Received by:
Samples Relinquished by:	Date/Time: 5-6-10 900	Received by:
Relinquished by:	Date/Time:	Received by:

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, 2010

LABORATORY REPORT

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

Work Order:	PTE0421
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	05/07/10
Final Report:	05/15/10 19:05

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 18.6°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: PTE0421
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 05/07/10
Reported: 05/15/10 19:05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C050410-01A	PTE0421-01	05/04/10	DNPH Silica Gel Tube, 450 mg
C050410-02A	PTE0421-02	05/04/10	DNPH Silica Gel Tube, 450 mg
C050410-03A	PTE0421-03	05/04/10	DNPH Silica Gel Tube, 450 mg
G050410-01A	PTE0421-04	05/04/10	DNPH Silica Gel Tube, 450 mg
G050410-02A	PTE0421-05	05/04/10	DNPH Silica Gel Tube, 450 mg
G050410-03A	PTE0421-06	05/04/10	DNPH Silica Gel Tube, 450 mg
S050410-01A	PTE0421-07	05/04/10	DNPH Silica Gel Tube, 450 mg
S050410-02A	PTE0421-08	05/04/10	DNPH Silica Gel Tube, 450 mg
S050410-03A	PTE0421-09	05/04/10	DNPH Silica Gel Tube, 450 mg
W050410-01A	PTE0421-10	05/04/10	DNPH Silica Gel Tube, 450 mg
W050410-02A	PTE0421-11	05/04/10	DNPH Silica Gel Tube, 450 mg
W050410-03A	PTE0421-12	05/04/10	DNPH Silica Gel Tube, 450 mg
050410A-A	PTE0421-13	05/04/10	DNPH Silica Gel Tube, 450 mg

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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: PTE0421 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/07/10 Reported: 05/15/10 19:05	

ANALYTICAL REPORT

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Aldehydes and Ketones by EPA TO-11A (Modified)								
Sample ID: PTE0421-01 (C050410-01A)		**Tube**		**Sample Air Volume:204L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001471	<0.0000268	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.431	0.002113	0.001173	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Acetone	0.948	0.004647	0.001956	IH10, IH11	5/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001471	<0.00006413	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.231	0.001132	0.0002609	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.204	0.001	0.0003391	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001471	<0.0000513	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.19	0.005833	0.004749	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0493	0.0002417	0.0001968	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.14	0.005588	0.00455	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.301	0.001475	0.0003602	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001471	<0.00004175	IH10	5/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001471	<0.00002993	IH10	5/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0809	0.0003966	0.0000807	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.177	0.0008676	0.0003653	IH10	5/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	0.108	0.0005294	0.0001077	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.113	0.0005539	0.0001572	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-02 (C050410-02A)		**Tube**		**Sample Air Volume:175.2L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001712	<0.0000312	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.359	0.002049	0.001137	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Acetone	0.662	0.003779	0.001591	IH10, IH11	5/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001712	<0.00007468	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.137	0.000782	0.0001802	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.153	0.0008733	0.0002961	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001712	<0.00005973	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.774	0.004418	0.003597	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0508	0.00029	0.0002361	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.723	0.004127	0.00336	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.244	0.001393	0.00034	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001712	<0.00004861	IH10	5/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0565	0.0003225	0.00006563	IH10	5/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0635	0.0003624	0.00007376	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.132	0.0007534	0.0003172	IH10	5/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001712	<0.00003485	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0511	0.0002917	0.0000828	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-03 (C050410-03A)		**Tube**		**Sample Air Volume:210.72L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001424	<0.00002594	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.669	0.003175	0.001762	IH10	5/12/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTE0421-03 (C050410-03A) - cont.		**Tube**		**Sample Air Volume:210.72L**			**Sampled: 05/04/10**	
							Prepared: 05/12/10 09:09	
Acetone	0.978	0.004641	0.001954	IH10, IH11	5/12/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001424	<0.00006209	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.231	0.001096	0.0002526	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001424	<0.00004827	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001424	<0.00004966	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.23	0.005837	0.004753	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0457	0.0002169	0.0001766	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.18	0.0056	0.004559	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.392	0.00186	0.0004541	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001424	<0.00004041	IH10	5/12/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0931	0.0004418	0.00008991	IH10	5/12/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.110	0.000522	0.0001062	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.285	0.001353	0.0005694	IH10	5/12/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001424	<0.00002897	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.121	0.0005742	0.000163	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-04 (G050410-01A)		**Tube**		**Sample Air Volume:262.56L**			**Sampled: 05/04/10**	
							Prepared: 05/12/10 09:09	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001143	<0.00002082	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0312	0.0001188	0.00006596	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.399	0.00152	0.0006397	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001143	<0.00004983	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0001143	<0.00002633	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001143	<0.00003874	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001143	<0.00003986	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.245	0.0009331	0.0007597	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0313	0.0001192	0.00009706	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.214	0.0008151	0.0006636	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.0001143	<0.00002789	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001143	<0.00003244	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001143	<0.00002325	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.0001143	<0.00002325	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0001143	<0.0000481	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001143	<0.00002325	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001143	<0.00003244	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-05 (G050410-02A)		**Tube**		**Sample Air Volume:196.8L**			**Sampled: 05/04/10**	
							Prepared: 05/12/10 09:09	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001524	<0.00002778	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.0411	0.0002088	0.0001159	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.415	0.002109	0.0008877	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001524	<0.00006648	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	<0.0001524	<0.00003512	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001524	<0.00005169	IH10	5/13/2010	zn	0.0300	EPA TO-11A

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Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Aldehydes and Ketones by EPA TO-11A (Modified) - cont.								
Sample ID: PTE0421-05 (G050410-02A) - cont.		**Tube**		**Sample Air Volume:196.8L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
Crotonaldehyde	<0.0300	<0.0001524	<0.00005318	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.197	0.001001	0.000815	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0487	0.0002475	0.0002015	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.148	0.000752	0.0006123	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	<0.0001524	<0.00003721	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001524	<0.00004327	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001524	<0.00003102	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	<0.0001524	<0.00003102	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	<0.0001524	<0.00006417	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001524	<0.00003102	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.0001524	<0.00004327	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-06 (G050410-03A)		**Tube**		**Sample Air Volume:270.24L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000111	<0.00002023	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.345	0.001277	0.0007086	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.820	0.003034	0.001277	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000111	<0.00004841	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0905	0.0003349	0.00007716	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.000111	<0.00003764	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000111	<0.00003873	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.878	0.003249	0.002645	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0481	0.000178	0.0001449	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.830	0.003071	0.002501	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.171	0.0006328	0.0001545	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000111	<0.00003151	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0661	0.0002446	0.00004977	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0498	0.0001843	0.0000375	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.137	0.000507	0.0002134	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000111	<0.00002259	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0405	0.0001499	0.00004254	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-07 (S050410-01A)		**Tube**		**Sample Air Volume:156.96L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001911	<0.00003483	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.280	0.001784	0.0009902	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.816	0.005199	0.002189	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001911	<0.00008335	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.111	0.0007072	0.0001629	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.130	0.0008282	0.0002808	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001911	<0.00006667	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.48	0.009429	0.007677	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0435	0.0002771	0.0002256	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.44	0.009174	0.00747	IH11	5/13/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTE0421-07 (S050410-01A) - cont.		**Tube**		**Sample Air Volume:156.96L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
Hexaldehyde	0.243	0.001548	0.0003779	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001911	<0.00005426	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0619	0.0003944	0.00008025	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0613	0.0003905	0.00007947	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0980	0.0006244	0.0002628	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001911	<0.00003889	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0784	0.0004995	0.0001418	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-08 (S050410-02A)		**Tube**		**Sample Air Volume:214.56L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001398	<0.00002548	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.311	0.001449	0.0008045	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.499	0.002326	0.0009791	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001398	<0.00006098	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.139	0.0006478	0.0001493	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.118	0.00055	0.0001865	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001398	<0.00004877	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.643	0.002997	0.00244	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0467	0.0002177	0.0001772	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.596	0.002778	0.002262	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.168	0.000783	0.0001911	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001398	<0.00003969	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0593	0.0002764	0.00005624	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0550	0.0002563	0.00005216	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0847	0.0003948	0.0001662	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001398	<0.00002845	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0413	0.0001925	0.00005464	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-09 (S050410-03A)		**Tube**		**Sample Air Volume:113.76L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002637	<0.00004805	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.306	0.00269	0.001493	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.935	0.008219	0.00346	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002637	<0.000115	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.204	0.001793	0.0004132	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.193	0.001697	0.0005752	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002637	<0.00009199	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.65	0.0145	0.01181	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.366	0.003217	0.0007854	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002637	<0.00007486	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.115	0.001011	0.0002057	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0911	0.0008008	0.000163	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.102	0.0008966	0.0003775	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002637	<0.00005366	IH10	5/13/2010	zn	0.0300	EPA TO-11A

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

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Sample ID: PTE0421-09 (S050410-03A) - cont.		**Tube**		**Sample Air Volume:113.76L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
Valeraldehyde	0.117	0.001028	0.000292	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-10 (W050410-01A)		**Tube**		**Sample Air Volume:264.48L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001134	<0.00002067	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.595	0.00225	0.001249	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	1.57	0.005936	0.002499	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acetone - Back (e)	0.308	0.001165	0.0004902	IH10	5/12/2010	zn	0.300	EPA TO-11A
Acetone - Front	1.26	0.004764	0.002006	IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001134	<0.00004947	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.230	0.0008696	0.0002004	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	<0.0001134	<0.00003846	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001134	<0.00003957	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.95	0.007373	0.006003	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0533	0.0002015	0.0001641	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.90	0.007184	0.005849	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.507	0.001917	0.000468	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001134	<0.0000322	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.138	0.0005218	0.0001062	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.109	0.0004121	0.00008387	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.264	0.0009982	0.0004202	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001134	<0.00002308	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.146	0.000552	0.0001567	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-11 (W050410-02A)		**Tube**		**Sample Air Volume:235.68L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001273	<0.00002319	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.231	0.0009801	0.000544	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.524	0.002223	0.000936	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001273	<0.00005551	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.0987	0.0004188	0.00009649	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.107	0.000454	0.0001539	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001273	<0.0000444	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.570	0.002419	0.001969	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0551	0.0002338	0.0001903	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.515	0.002185	0.001779	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.170	0.0007213	0.0001761	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001273	<0.00003613	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0527	0.0002236	0.0000455	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0346	0.0001468	0.00002988	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0627	0.000266	0.000112	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001273	<0.0000259	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0490	0.0002079	0.00005902	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-12 (W050410-03A)		**Tube**		**Sample Air Volume:240.96L**			**Sampled: 05/04/10**	

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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: PTE0421-12 (W050410-03A) - cont.		**Tube**		**Sample Air Volume:240.96L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001245	<0.00002269	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.736	0.003054	0.001695	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	1.16	0.004814	0.002027	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001245	<0.0000543	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.194	0.0008051	0.0001855	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0316	0.0001311	0.00004447	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde - Back (e)	0.0316	0.0001311	0.00004447	IH10	5/12/2010	zn	0.0300	EPA TO-11A
Butyraldehyde - Front	<0.0300	<0.0001245	<0.00004221	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001245	<0.00004343	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.41	0.005852	0.004764	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0558	0.0002316	0.0001885	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.35	0.005603	0.004562	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.328	0.001361	0.0003323	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001245	<0.00003534	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.123	0.0005105	0.0001039	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.123	0.0005105	0.0001039	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.310	0.001287	0.0005416	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001245	<0.00002534	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.149	0.0006184	0.0001755	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Sample ID: PTE0421-13 (050410A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 05/04/10**	
	ug, Total	mg/m3	ppm				**Prepared: 05/12/10 09:09**	
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Acetone	0.408	--	--	IH10, IH11	5/13/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.135	--	--	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0407	--	--	IH11	5/12/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0940	--	--	IH11	5/13/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	5/13/2010	zn	0.0300	EPA TO-11A

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

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10E0391-BLK1							
Formaldehyde	0.09966		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Formaldehyde - Back	0.04261		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acetaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acetaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acrolein	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acrolein - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acetone	0.4829		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Acetone - Back	<0.300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Propionaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Propionaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Crotonaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Butyraldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Butyraldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Benzaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Benzaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Isovaleraldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Valeraldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Valeraldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
o-Tolualdehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
m-Tolualdehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
p-Tolualdehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Hexaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
Hexaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10E0391		10E0391-BLK1	05-12-2010

Duplicate

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

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Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10E0391-DUP1									
Formaldehyde	1.140	1.134	IH11	ug, Total	0.528	10	10E0391	PTE0421-01	05-12-2010
Acetaldehyde	0.4310	0.4339	IH10	ug, Total	0.671	10	10E0391	PTE0421-01	05-12-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-01	05-12-2010
Acetone	0.9480	0.9469	IH11	ug, Total	0.116	10	10E0391	PTE0421-01	05-12-2010
Propionaldehyde	0.1770	0.1779	IH10	ug, Total	0.507	10	10E0391	PTE0421-01	05-12-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-01	05-12-2010
Butyraldehyde	0.2040	0.2119	IH10	ug, Total	3.8	10	10E0391	PTE0421-01	05-12-2010
Benzaldehyde	0.2310	0.2338	IH10	ug, Total	1.2	10	10E0391	PTE0421-01	05-12-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-01	05-12-2010
Valeraldehyde	0.1130	0.1082	IH10	ug, Total	4.34	10	10E0391	PTE0421-01	05-12-2010
o-Tolualdehyde	0.08090	0.08298	IH10	ug, Total	2.54	10	10E0391	PTE0421-01	05-12-2010
m-Tolualdehyde	ND	0.09665	IH10	ug, Total	200	10	10E0391	PTE0421-01	05-12-2010
p-Tolualdehyde	0.1080	<0.0300	IH10	ug, Total	200	10	10E0391	PTE0421-01	05-12-2010
Hexaldehyde	0.3010	0.3074	IH10	ug, Total	2.1	10	10E0391	PTE0421-01	05-12-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-01	05-12-2010
10E0391-DUP2									
Formaldehyde	0.5150	0.5135	IH11	ug, Total	0.292	10	10E0391	PTE0421-11	05-13-2010
Acetaldehyde	0.2310	0.2204	IH10	ug, Total	4.7	10	10E0391	PTE0421-11	05-13-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-11	05-13-2010
Acetone	0.5240	0.5253	IH11	ug, Total	0.248	10	10E0391	PTE0421-11	05-13-2010
Propionaldehyde	0.06270	0.06304	IH10	ug, Total	0.541	10	10E0391	PTE0421-11	05-13-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-11	05-13-2010
Butyraldehyde	0.1070	0.1058	IH10	ug, Total	1.13	10	10E0391	PTE0421-11	05-13-2010
Benzaldehyde	0.09870	0.1029	IH10	ug, Total	4.17	10	10E0391	PTE0421-11	05-13-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-11	05-13-2010
Valeraldehyde	0.04900	0.04357	IH10	ug, Total	11.7	10	10E0391	PTE0421-11	05-13-2010
o-Tolualdehyde	0.03460	0.03529	IH10	ug, Total	1.97	10	10E0391	PTE0421-11	05-13-2010
m-Tolualdehyde	0.05270	0.05292	IH10	ug, Total	0.417	10	10E0391	PTE0421-11	05-13-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-11	05-13-2010
Hexaldehyde	0.1700	0.1638	IH10	ug, Total	3.71	10	10E0391	PTE0421-11	05-13-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10E0391	PTE0421-11	05-13-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10E0391-BS1								
Formaldehyde	0.45	0.4974	IH11	ug, Total	111%	22-134	10E0391	05-12-2010
Acetaldehyde	0.45	0.4392	IH10	ug, Total	98%	51-142	10E0391	05-12-2010
Acrolein	0.45	0.3176	IH10, L2	ug, Total	71%	75-125	10E0391	05-12-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10E0391-BS1								
Acetone	0.45	0.8696	IH11, L1	ug, Total	193%	75-125	10E0391	05-12-2010
Propionaldehyde	0.45	0.5040	IH10	ug, Total	112%	67-145	10E0391	05-12-2010
Crotonaldehyde	0.45	0.3889	IH10	ug, Total	86%	66-146	10E0391	05-12-2010
Butyraldehyde	0.45	0.4639	IH10	ug, Total	103%	56-141	10E0391	05-12-2010
Benzaldehyde	0.45	0.4404	IH10	ug, Total	98%	57-142	10E0391	05-12-2010
Isovaleraldehyde	0.45	0.4133	IH10	ug, Total	92%	66-144	10E0391	05-12-2010
Valeraldehyde	0.45	0.4399	IH10	ug, Total	98%	66-144	10E0391	05-12-2010
o-Tolualdehyde	0.45	0.4263	IH10	ug, Total	95%	39-130	10E0391	05-12-2010
m-Tolualdehyde	0.45	0.4353	IH10	ug, Total	97%	73-143	10E0391	05-12-2010
p-Tolualdehyde	0.45	0.4360	IH10	ug, Total	97%	66-147	10E0391	05-12-2010
Hexaldehyde	0.45	0.4378	IH10	ug, Total	97%	65-145	10E0391	05-12-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4421	IH10	ug, Total	98%	75-144	10E0391	05-12-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10E0391-BSD1												
Formaldehyde		0.5022	IH11	ug, Total	0.45	112%	22-134	0.96	20	10E0391		05-12-2010
Acetaldehyde		0.4493	IH10	ug, Total	0.45	100%	51-142	2.27	20	10E0391		05-12-2010
Acrolein		0.3296	IH10, L2	ug, Total	0.45	73%	75-125	3.71	20	10E0391		05-12-2010
Acetone		0.9230	IH11, L1	ug, Total	0.45	205%	75-125	5.96	20	10E0391		05-12-2010
Propionaldehyde		0.5034	IH10	ug, Total	0.45	112%	67-145	0.119	20	10E0391		05-12-2010
Crotonaldehyde		0.4025	IH10	ug, Total	0.45	89%	66-146	3.44	20	10E0391		05-12-2010
Butyraldehyde		0.4903	IH10	ug, Total	0.45	109%	56-141	5.53	20	10E0391		05-12-2010
Benzaldehyde		0.4465	IH10	ug, Total	0.45	99%	57-142	1.38	20	10E0391		05-12-2010
Isovaleraldehyde		0.4308	IH10	ug, Total	0.45	96%	66-144	4.15	20	10E0391		05-12-2010
Valeraldehyde		0.4517	IH10	ug, Total	0.45	100%	66-144	2.65	20	10E0391		05-12-2010
o-Tolualdehyde		0.4348	IH10	ug, Total	0.45	97%	39-130	1.97	20	10E0391		05-12-2010
m-Tolualdehyde		0.4374	IH10	ug, Total	0.45	97%	73-143	0.481	20	10E0391		05-12-2010
p-Tolualdehyde		0.4497	IH10	ug, Total	0.45	100%	66-147	3.09	20	10E0391		05-12-2010
Hexaldehyde		0.4429	IH10	ug, Total	0.45	98%	65-145	1.16	20	10E0391		05-12-2010
2,5-Dimethyl Benzaldehyde		0.4508	IH10	ug, Total	0.45	100%	75-144	1.95	20	10E0391		05-12-2010

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTE0421 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/07/10 Reported: 05/15/10 19:05	

CERTIFICATION SUMMARY

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

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

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

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

Samples were analyzed using methods outlined in references such as:

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

Analytical Comments:

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

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

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

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

Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTE0421 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 05/07/10 Reported: 05/15/10 19:05	

DATA QUALIFIERS AND DEFINITIONS

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

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

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

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

ADDITIONAL COMMENTS

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

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

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

№ 8591

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7370
Page 1 of 1

CHAIN-OF-CUSTODY RECORD

PTE 0421

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	Analysis: Aldehyde TO-11	Ketone TO-11	Carboxyl TO-11													Expected Conc. (H,M,L)	Hold	Remarks: Flow Rate l/min
C050410-01A				5/4/10	480	Cell Tower	1			X	X	X				-01											0.425 l/min
C050410-02A				5/4/10	480	Cell Tower	1			X	X	X				-02											0.365 "
C050410-03A				5/4/10	480	Cell Tower	1			X	X	X				-03											0.439 "
G050410-01A				5/4/10	480*	Campground	1			X	X	X				-04											0.547 l/min
G050410-02A				5/4/10	480*	Campground	1			X	X	X				-05											0.410 "
G050410-03A				5/4/10	480*	Campground	1			X	X	X				-06											0.563 "
S050410-01A				5/4/10	480	School	1			X	X	X				-07											0.327 l/min
S050410-02A				5/4/10	480	School	1			X	X	X				-08											0.447 "
S050410-03A				5/4/10	480	School	1			X	X	X				-09											0.237 "
W050410-01A				5/4/10	480	Wetland	1			X	X	X				-10											0.551 l/min
W050410-02A				5/4/10	480	Wetland	1			X	X	X				-11											0.491 "
W050410-03A				5/4/10	480	Wetland	1			X	X	X				-12											0.502 "
050410A-A				5/4/10	—	Field Blank	1			X	X	X				-13											No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5-6-10 900						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5/6/10 1600					[signature]	5/7/10 1030

Comments:
* Possible pump failure time estimated.

18.6°C
Custody Seal

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010

June 30, 2010

APPENDIX C. Laboratory Analytical Results from Event #164:
Wednesday, June 2, 2010 to Thursday, June 3, 2010

Test America Laboratories-Knoxville: EPA Method TO-15M
Test America Laboratories-Phoenix: EPA Method TO-11A, NIOSH 7903

SAMPLE SUMMARY

H0F070433

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L2J4C	001	SU-C060210	06/02/10	
L2J4M	002	SU-G060210	06/02/10	
L2J4P	003	SU-S060210	06/02/10	
L2J4R	004	SU-W060210	06/02/10	
L2J4T	005	SU-COS060210	06/02/10	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H0F070433

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

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

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

Sample Receipt

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

Quality Control and Data Interpretation

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

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

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 6/4/10 exhibited a % difference of > 30% for 1,2-dichloro-1,1,2,2-tetrafluoroethane, the results were within the LCS acceptance limits.

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-C060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 001 **Work Order #** L2J4C1AA **Matrix.....:** AIR

Date Sampled...: 06/02/2010 **Date Received..:** 06/07/2010
Prep Date.....: 06/08/2010 **Analysis Date...** 06/08/2010
Prep Batch #.....: 0160043
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	**6.7**	**5.0**	**16**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.058**	**0.50**	**0.24**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.14**	**0.50**	**0.49**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.25**	**2.0**	**0.76**	**J**	**6.1**
Methylene chloride	**0.29**	**0.50**	**1.00**	**J**	**1.7**
Benzene	**0.093**	**0.20**	**0.30**	**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	**0.072**	**0.20**	**0.55**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.13**	**0.20**	**0.62**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.73**	**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	ND	0.40	ND		2.0
Carbon disulfide	ND	0.50	ND		1.6
Carbon tetrachloride	**0.084**	**0.20**	**0.53**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-C060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 001 **Work Order #** L2J4C1AA **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	**0.064**	**0.20**	**0.31**	**J**	**0.98**
Chloromethane	**0.82**	**0.50**	**1.7**		**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	98	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-G060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 002 **Work Order #** L2J4M1AA **Matrix.....:** AIR

Date Sampled...: 06/02/2010 **Date Received..:** 06/07/2010
Prep Date.....: 06/08/2010 **Analysis Date...** 06/08/2010
Prep Batch #.....: 0160043
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.2**	**5.0**	**19**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.27**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.071**	**0.50**	**0.29**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.42**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.17**	**2.0**	**0.53**	**J**	**6.1**
Methylene chloride	**0.25**	**0.50**	**0.86**	**J**	**1.7**
Benzene	**0.061**	**0.20**	**0.20**	**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	**0.11**	**0.20**	**0.40**	**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	**0.067**	**0.20**	**0.52**	**J**	**1.5**
1,2,4-Trimethylbenzene	ND	0.20	ND		0.98
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	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)	**1.3**	**1.0**	**3.8**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.074**	**0.50**	**0.30**	**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	**0.094**	**0.20**	**0.59**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-G060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 002 Work Order # L2J4M1AA 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	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	**0.53**	**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	98	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-S060210

GC/MS Volatiles

Lot-Sample #	H0F070433 - 003	**Work Order #**	L2J4P1AA	**Matrix.....:**	AIR
Date Sampled...:	06/02/2010	**Date Received..:**	06/07/2010		
Prep Date.....:	06/08/2010	**Analysis Date...**	06/08/2010		
Prep Batch #.....:	0160043				
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	**5.6**	**5.0**	**13**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.26**	**0.20**	**1.5**		**1.1**
n-Heptane	**0.069**	**0.50**	**0.28**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.11**	**0.50**	**0.39**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.13**	**2.0**	**0.40**	**J**	**6.1**
Methylene chloride	**0.16**	**0.50**	**0.54**	**J**	**1.7**
Benzene	**0.077**	**0.20**	**0.25**	**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**	**0.50**	**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	**0.065**	**0.20**	**0.50**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.088**	**0.20**	**0.43**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**0.78**	**1.0**	**2.3**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.051**	**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	**0.050**	**0.50**	**0.16**	**J**	**1.6**
Carbon tetrachloride	**0.085**	**0.20**	**0.54**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-S060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 003 **Work Order #** L2J4P1AA **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	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	99	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-W060210

GC/MS Volatiles

Lot-Sample #	H0F070433 - 004	**Work Order #**	L2J4R1AA	**Matrix.....:**	AIR

Date Sampled...:	06/02/2010	**Date Received..:**	06/07/2010
Prep Date.....:	06/08/2010	**Analysis Date...**	06/08/2010
Prep Batch #.....:	0160043		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)		REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.20	ND		0.91
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND		1.4
Acetone	**8.9**	**5.0**	**21**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.29**	**0.20**	**1.6**		**1.1**
n-Heptane	**0.072**	**0.50**	**0.29**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.12**	**0.50**	**0.44**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.092**	**2.0**	**0.28**	**J**	**6.1**
Methylene chloride	**0.33**	**0.50**	**1.1**	**J**	**1.7**
Benzene	**0.067**	**0.20**	**0.22**	**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**	**0.50**	**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	**0.071**	**0.20**	**0.55**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.11**	**0.20**	**0.54**	**J**	**0.98**
1,3,5-Trimethylbenzene	ND	0.20	ND		0.98
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	ND	0.20	ND		0.87
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	ND	0.20	ND		0.87
Bromodichloromethane	ND	0.20	ND		1.3
1,2-Dibromoethane (EDB)	ND	0.20	ND		1.5
2-Butanone (MEK)	**1.4**	**1.0**	**4.1**		**2.9**
4-Methyl-2-pentanone (MIBK)	**0.19**	**0.50**	**0.79**	**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	**0.048**	**0.50**	**0.15**	**J**	**1.6**
Carbon tetrachloride	**0.12**	**0.20**	**0.76**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-W060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 004 Work Order # L2J4R1AA 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	**0.040**	**0.20**	**0.11**	**J**	**0.53**
Chloroform	**0.062**	**0.20**	**0.30**	**J**	**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	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	**0.53**	**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	99	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: SU-COS060210

GC/MS Volatiles

Lot-Sample #	H0F070433 - 005	**Work Order #**	L2J4T1AA	**Matrix.....:**	AIR
Date Sampled...:	06/02/2010	**Date Received..:**	06/07/2010		
Prep Date.....:	06/08/2010	**Analysis Date...**	06/08/2010		
Prep Batch #.....:	0160043				
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	**6.9**	**5.0**	**16**		**12**
Ethylbenzene	ND	0.20	ND		0.87
Trichlorofluoromethane	**0.31**	**0.20**	**1.7**		**1.1**
n-Heptane	**0.076**	**0.50**	**0.31**	**J**	**2.0**
Hexachlorobutadiene	ND	1.0	ND		11
n-Hexane	**0.19**	**0.50**	**0.65**	**J**	**1.8**
2,2,4-Trimethylpentane	ND	0.50	ND		2.3
tert-Butyl alcohol	**0.15**	**2.0**	**0.46**	**J**	**6.1**
Methylene chloride	**0.34**	**0.50**	**1.2**	**J**	**1.7**
Benzene	**0.11**	**0.20**	**0.36**	**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	**0.064**	**0.20**	**0.49**	**J**	**1.5**
1,2,4-Trimethylbenzene	**0.36**	**0.20**	**1.8**		**0.98**
1,3,5-Trimethylbenzene	**0.071**	**0.20**	**0.35**	**J**	**0.98**
Vinyl chloride	ND	0.20	ND		0.51
o-Xylene	**0.10**	**0.20**	**0.45**	**J**	**0.87**
Methyl tert-butyl ether	ND	1.0	ND		3.6
m-Xylene & p-Xylene	**0.25**	**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)	**0.69**	**1.0**	**2.0**	**J**	**2.9**
4-Methyl-2-pentanone (MIBK)	**0.057**	**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	**0.25**	**0.50**	**0.77**	**J**	**1.6**
Carbon tetrachloride	**0.096**	**0.20**	**0.60**	**J**	**1.3**

Lawhon & Associates, Inc.

Client Sample ID: SU-COS060210

GC/MS Volatiles

Lot-Sample # H0F070433 - 005 **Work Order #** L2J4T1AA **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	**0.70**	**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	**0.55**	**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	100	60 - 140

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon & Associates, Inc.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample #	H0F090000 - 043B	**Work Order #**	L2MHN1AA	**Matrix.....:**	AIR
	06/02/2010	**Date Received..:**	06/07/2010		
Prep Date.....:	06/08/2010	**Analysis Date...**	06/08/2010		
Prep Batch #.....:	0160043				
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 # H0F090000 - 043B **Work Order #** L2MHN1AA **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	94	60 - 140

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

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

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0F090000 - 043C **Work Order #** L2MHN1AC **Matrix.....:** AIR

06/02/2010 **Date Received..:** 06/07/2010

Prep Date.....: 06/08/2010 **Analysis Date...** 06/08/2010

Prep Batch #.....: 0160043

Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
trans-1,3-Dichloropropene	10.0	8.17	45	37	82	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	13.3	70	93	133	60 - 140
Acetone	10.0	7.97	24	19	80	60 - 140
Ethylbenzene	10.0	8.85	43	38	89	70 - 130
Trichlorofluoromethane	10.0	11.7	56	66	117	60 - 140
n-Heptane	10.0	9.39	41	38	94	70 - 130
Hexachlorobutadiene	10.0	9.03	110	96	90	60 - 140
n-Hexane	10.0	9.52	35	34	95	70 - 130
2,2,4-Trimethylpentane	10.0	8.90	47	42	89	70 - 130
tert-Butyl alcohol	10.0	9.63	30	29	96	60 - 140
Methylene chloride	10.0	7.20	35	25	72	70 - 130
Benzene	10.0	7.35	32	23	74	70 - 130
Styrene	10.0	9.47	43	40	95	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.69	69	60	87	70 - 130
Tetrachloroethene	10.0	8.73	68	59	87	70 - 130
Tetrahydrofuran	10.0	8.78	29	26	88	70 - 130
Toluene	10.0	7.84	38	30	78	70 - 130
1,2,4-Trichlorobenzene	10.0	7.50	74	56	75	60 - 140
1,1,1-Trichloroethane	10.0	10.7	55	58	107	70 - 130
1,1,2-Trichloroethane	10.0	8.21	55	45	82	70 - 130
Trichloroethene	10.0	7.69	54	41	77	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	8.64	77	66	86	70 - 130
1,2,4-Trimethylbenzene	10.0	10.0	49	49	100	70 - 130
1,3,5-Trimethylbenzene	10.0	9.36	49	46	94	70 - 130
Vinyl chloride	10.0	9.50	26	24	95	70 - 130
o-Xylene	10.0	9.36	43	41	94	70 - 130
Methyl tert-butyl ether	10.0	9.22	36	33	92	60 - 140
m-Xylene & p-Xylene	20.0	18.2	87	79	91	70 - 130
Bromodichloromethane	10.0	9.10	67	61	91	70 - 130
1,2-Dibromoethane (EDB)	10.0	8.21	77	63	82	70 - 130
2-Butanone (MEK)	10.0	7.86	29	23	79	60 - 140
4-Methyl-2-pentanone (MIBK)	10.0	9.50	41	39	95	60 - 140
Vinyl bromide	10.0	9.48	44	41	95	60 - 140
Bromoform	10.0	12.4	100	130	124	70 - 130
Bromomethane	10.0	9.92	39	39	99	70 - 130
1,3-Butadiene	10.0	9.28	22	21	93	60 - 140
4-Ethyltoluene	10.0	9.98	49	49	100	70 - 130

Lawhon & Associates, Inc.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H0F090000 - 043C **Work Order #** L2MHN1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Carbon disulfide	10.0	8.90	31	28	89	70 - 130
Carbon tetrachloride	10.0	9.82	63	62	98	70 - 130
Chlorobenzene	10.0	8.36	46	38	84	70 - 130
Dibromochloromethane	10.0	10.1	85	86	101	70 - 130
Chloroethane	10.0	9.12	26	24	91	70 - 130
Chloroform	10.0	8.83	49	43	88	70 - 130
Chloromethane	10.0	10.2	21	21	102	60 - 140
3-Chloropropene	10.0	9.90	31	31	99	70 - 130
2-Chlorotoluene	10.0	9.45	52	49	95	70 - 130
Cyclohexane	10.0	8.43	34	29	84	70 - 130
1,2-Dichlorobenzene	10.0	9.78	60	59	98	70 - 130
1,3-Dichlorobenzene	10.0	9.50	60	57	95	70 - 130
1,4-Dichlorobenzene	10.0	9.43	60	57	94	70 - 130
Dichlorodifluoromethane	10.0	11.4	49	56	114	60 - 140
1,1-Dichloroethane	10.0	8.53	40	35	85	70 - 130
1,2-Dichloroethane	10.0	9.02	40	37	90	70 - 130
1,1-Dichloroethene	10.0	8.08	40	32	81	70 - 130
cis-1,2-Dichloroethene	10.0	8.41	40	33	84	70 - 130
trans-1,2-Dichloroethene	10.0	9.43	40	37	94	70 - 130
1,2-Dichloropropane	10.0	7.72	46	36	77	70 - 130
cis-1,3-Dichloropropene	10.0	7.78	45	35	78	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

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

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

Sample Receipt Documentation

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

929 Eastwind Drive, Suite 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

HOF-070433

№ 8615

Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.: 8708 8122 7392

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

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

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

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Tamaggio, Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time (Cust time)	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method TO-15 VOCs	Expected Conc. (H,M,L)	Hold	Remarks: Summa Can #
SU-C060210				6/2/10	1440	Cell Tower	1			X			7499
SU-G060210				6/2/10	1440	Campground	1			X			6612
SU-S060210				6/2/10	1440	School	1			X			93265
SU-W060210				6/2/10	1440	Wetland	1			X			6133
SU-COS060210				6/2/10	1440	Co-Located School	1			X			6609

1 box
custody seals intact
rec. at ambient temp.
Fed ex # 8708 8122 7392
6 cans/6 flows

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	6/4/10 1600						
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	6/2/10 1500						6/7/10 10:30

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

HUF070433

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, OH 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 / Nick Tamaggio

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-C060210	6/2/10	1500	1500	-28	-4.5	K354	7499	X								X			
SU-G060210	↓	↓	↓	-29	-4.0	K372	6612	X								X			
SU-S060210	↓	↓	↓	-28.5	-1.0	K466	13266	X								X			
SU-W060210	↓	↓	↓	-28	-4.5	K331	6133	X								X			
SU-COS060210	↓	↓	↓	-29	-4.0	K172	6609	X								X			

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time: 1600 6/4/10	Canisters Received by:	
Samples Relinquished by:	Date/Time: 1500 / 6/2/10	Received by:	6/7/10 10:30
Relinquished by:	Date/Time:	Received by:	

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

June 15, 2010

LABORATORY REPORT

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

Work Order:	PTF0430
Project Name:	Countywide - Ambient Air
Project Number:	Countywide / 07-0082
Date Received:	06/08/10
Final Report:	06/15/10 12:19

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 20°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
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Lawhon and Associates, Inc.
975 Eastwind Drive, Suite 190
Westerville, OH 43081
Shawn Ansbro

Work Order: PTF0430
Project: Countywide - Ambient Air
Project Number: Countywide / 07-0082

Received: 06/08/10
Reported: 06/15/10 12:19

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE	CONTAINER TYPE
C060210-01A	PTF0430-01	06/02/10	DNPH Silica Gel Tube, 450 mg
C060210-02A	PTF0430-02	06/02/10	DNPH Silica Gel Tube, 450 mg
C060210-03A	PTF0430-03	06/02/10	DNPH Silica Gel Tube, 450 mg
G060210-01A	PTF0430-04	06/02/10	DNPH Silica Gel Tube, 450 mg
G060210-02A	PTF0430-05	06/02/10	DNPH Silica Gel Tube, 450 mg
G060210-03A	PTF0430-06	06/02/10	DNPH Silica Gel Tube, 450 mg
S060210-01A	PTF0430-07	06/02/10	DNPH Silica Gel Tube, 450 mg
S060210-02A	PTF0430-08	06/02/10	DNPH Silica Gel Tube, 450 mg
S060210-03A	PTF0430-09	06/02/10	DNPH Silica Gel Tube, 450 mg
W060210-01A	PTF0430-10	06/02/10	DNPH Silica Gel Tube, 450 mg
W060210-02A	PTF0430-11	06/02/10	DNPH Silica Gel Tube, 450 mg
W060210-03A	PTF0430-12	06/02/10	DNPH Silica Gel Tube, 450 mg
060210A-A	PTF0430-13	06/02/10	DNPH Silica Gel Tube, 450 mg

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTF0430 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 06/08/10 Reported: 06/15/10 12:19	

ANALYTICAL REPORT

Analyte	Result (ug, Total)	Result (mg/m3)	Result (ppm)	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
Aldehydes and Ketones by EPA TO-11A (Modified)								
Sample ID: PTF0430-01 (C060210-01A)		**Tube**		**Sample Air Volume:189.6L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001582	<0.00002883	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.477	0.002516	0.001396	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001582	<0.0006661	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001582	<0.000069	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.284	0.001498	0.0003451	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0983	0.0005185	0.0001758	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001582	<0.0000552	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.98	0.01044	0.008503	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0649	0.0003423	0.0002787	IH11	6/10/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.92	0.01013	0.008245	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.325	0.001714	0.0004184	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001582	<0.00004492	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.170	0.0008966	0.0001825	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.150	0.0007911	0.000161	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.174	0.0009177	0.0003863	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001582	<0.0000322	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0823	0.0004341	0.0001232	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0653	0.0003444	0.0001912	IH10	6/10/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.412	0.002173	0.001206	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-02 (C060210-02A)		**Tube**		**Sample Air Volume:166.08L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001806	<0.00003292	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.344	0.002071	0.00115	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001806	<0.0007604	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001806	<0.00007878	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.165	0.0009935	0.0002289	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0711	0.0004281	0.0001452	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001806	<0.00006301	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.14	0.006864	0.005589	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0596	0.0003589	0.0002922	IH11	6/10/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.08	0.006503	0.005295	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.296	0.001782	0.0004351	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001806	<0.00005128	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001806	<0.00003676	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0506	0.0003047	0.000062	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.123	0.0007406	0.0003118	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001806	<0.00003676	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0480	0.000289	0.00008204	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0435	0.0002619	0.0001454	IH10	6/10/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.300	0.001806	0.001003	IH11	6/11/2010	zn	0.0300	EPA TO-11A

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTF0430 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 06/08/10 Reported: 06/15/10 12:19	

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: PTF0430-03 (C060210-03A)		**Tube**		**Sample Air Volume:201.2L**			**Sampled: 06/02/10**	
							Prepared: 06/10/10 13:49	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001491	<0.00002717	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.572	0.002843	0.001578	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001491	<0.0006277	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001491	<0.00006503	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.200	0.000994	0.000229	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0886	0.0004404	0.0001493	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001491	<0.00005201	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.45	0.007207	0.005868	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0543	0.0002699	0.0002197	IH11	6/10/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.40	0.006958	0.005665	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.316	0.001571	0.0003834	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001491	<0.00004233	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001491	<0.00003034	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0670	0.000333	0.00006776	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.210	0.001044	0.0004394	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001491	<0.00003034	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0611	0.0003037	0.00008621	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0573	0.0002848	0.0001581	IH10	6/10/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.515	0.00256	0.001421	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-04 (G060210-01A)		**Tube**		**Sample Air Volume:192L**			**Sampled: 06/02/10**	
							Prepared: 06/10/10 13:49	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001563	<0.00002847	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.355	0.001849	0.001026	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001563	<0.0006578	IH11, IH10	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001563	<0.00006814	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.274	0.001427	0.0003288	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.139	0.000724	0.0002455	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001563	<0.00005451	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	2.57	0.01339	0.0109	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0494	0.0002573	0.0002095	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.52	0.01313	0.01069	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.574	0.00299	0.0007298	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	0.0439	0.0002286	0.00006491	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001563	<0.0000318	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.153	0.0007969	0.0001622	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.122	0.0006354	0.0002675	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001563	<0.0000318	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.129	0.0006719	0.0001907	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0344	0.0001792	0.00009945	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.321	0.001672	0.000928	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-05 (G060210-02A)		**Tube**		**Sample Air Volume:182.88L**			**Sampled: 06/02/10**	
							Prepared: 06/10/10 13:49	

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Lawhon and Associates, Inc. 975 Eastwind Drive, Suite 190 Westerville, OH 43081 Shawn Ansbro	Work Order: PTF0430 Project: Countywide - Ambient Air Project Number: Countywide / 07-0082	Received: 06/08/10 Reported: 06/15/10 12:19	

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: PTF0430-05 (G060210-02A) - cont.		**Tube**		**Sample Air Volume:182.88L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.000164	<0.00002989	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.382	0.002089	0.001159	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.00164	<0.0006906	IH11, IH10	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000164	<0.00007154	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.165	0.0009022	0.0002079	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0758	0.0004145	0.0001405	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000164	<0.00005722	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.23	0.006726	0.005476	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0552	0.0003018	0.0002458	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.17	0.006398	0.005209	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.301	0.001646	0.0004018	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000164	<0.00004657	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.000164	<0.00003338	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0512	0.00028	0.00005697	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.135	0.0007382	0.0003108	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000164	<0.00003338	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000164	<0.00004657	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0537	0.0002936	0.000163	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.328	0.001794	0.0009955	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-06 (G060210-03A)		**Tube**		**Sample Air Volume:195.84L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001532	<0.00002791	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.734	0.003748	0.00208	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001532	<0.0006449	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001532	<0.00006681	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.186	0.0009498	0.0002188	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.107	0.0005464	0.0001853	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001532	<0.00005344	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.87	0.009549	0.007774	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0520	0.0002655	0.0002162	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.82	0.009293	0.007566	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.327	0.00167	0.0004076	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001532	<0.00004349	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001532	<0.00003117	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0700	0.0003574	0.00007274	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.248	0.001266	0.0005331	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001532	<0.00003117	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0802	0.0004095	0.0001163	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0717	0.0003661	0.0002032	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.662	0.00338	0.001876	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-07 (S060210-01A)		**Tube**		**Sample Air Volume:143.04L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	

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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: PTF0430-07 (S060210-01A) - cont.		**Tube**		**Sample Air Volume:143.04L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0002097	<0.00003822	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.294	0.002055	0.001141	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.002097	<0.0008829	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0002097	<0.00009147	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.189	0.001321	0.0003044	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.107	0.000748	0.0002536	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0002097	<0.00007316	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	2.13	0.01489	0.01212	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0609	0.0004258	0.0003466	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	2.07	0.01447	0.01178	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.326	0.002279	0.0005563	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0002097	<0.00005954	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0002097	<0.00004268	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.132	0.0009228	0.0001878	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0788	0.0005509	0.0002319	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0002097	<0.00004268	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0862	0.0006026	0.0001711	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0342	0.0002391	0.0001327	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.260	0.001818	0.001009	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-08 (S060210-02A)		**Tube**		**Sample Air Volume:192L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001563	<0.00002847	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.216	0.001125	0.0006244	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001563	<0.0006578	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001563	<0.00006814	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.131	0.0006823	0.0001572	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0578	0.000301	0.0001021	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001563	<0.00005451	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.147	0.0007656	0.0006234	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0654	0.0003406	0.0002773	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0817	0.0004255	0.0003465	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.188	0.0009792	0.000239	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001563	<0.00004436	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.0921	0.0004797	0.00009761	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0527	0.0002745	0.00005586	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0542	0.0002823	0.0001188	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001563	<0.0000318	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0640	0.0003333	0.00009462	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0485	0.0002526	0.0001402	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.167	0.0008698	0.0004828	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-09 (S060210-03A)		**Tube**		**Sample Air Volume:206.88L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	

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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: PTF0430-09 (S060210-03A) - cont.		**Tube**		**Sample Air Volume:206.88L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	0.0343	0.0001658	0.00003021	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.407	0.001967	0.001092	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.00145	<0.0006105	IH11, IH10	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.000145	<0.00006324	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.226	0.001092	0.0002517	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.114	0.000551	0.0001868	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.000145	<0.00005059	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.34	0.006477	0.005274	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0582	0.0002813	0.000229	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.28	0.006187	0.005037	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.365	0.001764	0.0004307	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.000145	<0.00004116	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	0.153	0.0007396	0.0001505	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0955	0.0004616	0.00009394	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0993	0.00048	0.0002021	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.000145	<0.00002951	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	<0.000145	<0.00004116	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0482	0.000233	0.0001293	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.359	0.001735	0.0009632	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-10 (W060210-01A)		**Tube**		**Sample Air Volume:193.44L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001551	<0.00002826	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.458	0.002368	0.001314	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001551	<0.0006529	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001551	<0.00006763	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.186	0.0009615	0.0002215	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0861	0.0004451	0.0001509	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001551	<0.0000541	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.97	0.01018	0.008292	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0614	0.0003174	0.0002584	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.91	0.009874	0.008039	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.385	0.00199	0.0004858	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001551	<0.00004403	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001551	<0.00003156	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0919	0.0004751	0.00009668	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.178	0.0009202	0.0003874	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001551	<0.00003156	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0854	0.0004415	0.0001253	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0622	0.0003215	0.0001785	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.396	0.002047	0.001136	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-11 (W060210-02A)		**Tube**		**Sample Air Volume:212.64L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	

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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: PTF0430-11 (W060210-02A) - cont.		**Tube**		**Sample Air Volume:212.64L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001411	<0.00002571	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.265	0.001246	0.0006917	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001411	<0.0005939	IH11, IH10	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001411	<0.00006153	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.195	0.000917	0.0002113	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0817	0.0003842	0.0001303	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001411	<0.00004922	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.15	0.005408	0.004403	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0300	0.0001411	0.0001149	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.12	0.005267	0.004288	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.334	0.001571	0.0003834	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001411	<0.00004005	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001411	<0.00002871	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0523	0.000246	0.00005005	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.0698	0.0003283	0.0001382	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001411	<0.00002871	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0815	0.0003833	0.0001088	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0353	0.000166	0.00009214	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.230	0.001082	0.0006004	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-12 (W060210-03A)		**Tube**		**Sample Air Volume:212.64L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	
2,5-Dimethyl Benzaldehyde	<0.0300	<0.0001411	<0.00002571	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	0.545	0.002563	0.001423	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	<0.300	<0.001411	<0.0005939	IH11, IH10	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	<0.0001411	<0.00006153	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	0.182	0.0008559	0.0001972	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	0.0981	0.0004613	0.0001564	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	<0.0001411	<0.00004922	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	1.34	0.006302	0.005131	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back	0.0473	0.0002224	0.0001811	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	1.29	0.006067	0.004939	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	0.264	0.001242	0.0003031	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	<0.0001411	<0.00004005	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	<0.0001411	<0.00002871	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	0.0690	0.0003245	0.00006603	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	0.183	0.0008606	0.0003623	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	<0.0001411	<0.00002871	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	0.0759	0.0003569	0.0001013	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Back (e)	0.0581	0.0002732	0.0001517	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde - Front	0.487	0.00229	0.001271	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Sample ID: PTF0430-13 (060210A-A)		**Tube**		**Sample Air Volume:L**			**Sampled: 06/02/10**	
	ug, Total	mg/m3	ppm				**Prepared: 06/10/10 13:49**	

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

Sample ID: PTF0430-13 (060210A-A) - cont. | **Tube** | **Sample Air Volume:L** | **Sampled: 06/02/10** | **Prepared: 06/10/10 13:49**

Analyte	Result ug, Total	Result mg/m3	Result ppm	Qual	Date Analyzed	Analyst	Rpt Limit (ug, Total)	Method
2,5-Dimethyl Benzaldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Acetaldehyde	<0.0300	--	--	IH10, IH11	6/11/2010	zn	0.0300	EPA TO-11A
Acetone	0.322	--	--	IH10, IH11	6/11/2010	zn	0.300	EPA TO-11A
Acrolein	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Benzaldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Butyraldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Crotonaldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde	0.136	--	--	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Back (e)	0.0389	--	--	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Formaldehyde - Front	0.0969	--	--	IH11	6/11/2010	zn	0.0300	EPA TO-11A
Hexaldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Isovaleraldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
m-Tolualdehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
o-Tolualdehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Propionaldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
p-Tolualdehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A
Valeraldehyde	<0.0300	--	--	IH10	6/11/2010	zn	0.0300	EPA TO-11A

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

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Qual	Units	Q.C. Batch	Target Range	Lab Number	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)							
10F0369-BLK1							
Formaldehyde	0.1055		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Formaldehyde - Back	0.03965		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acetaldehyde	0.03083		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acetaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acrolein	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acrolein - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acetone	0.4194		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Acetone - Back	<0.300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Propionaldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Propionaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Crotonaldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Crotonaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Butyraldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Butyraldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Benzaldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Benzaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Isovaleraldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Isovaleraldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Valeraldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Valeraldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
o-Tolualdehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
o-Tolualdehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
m-Tolualdehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
m-Tolualdehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
p-Tolualdehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
p-Tolualdehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Hexaldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
Hexaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
2,5-Dimethyl Benzaldehyde	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010
2,5-Dimethyl Benzaldehyde - Back	<0.0300		ug, Total	10F0369		10F0369-BLK1	06-10-2010

Duplicate

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

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Duplicate

Analyte	Orig. Val.	Duplicate	Qual	Units	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)									
10F0369-DUP1									
Formaldehyde	1.920	1.913	IH11	ug, Total	0.365	10	10F0369	PTF0430-01	06-11-2010
Acetaldehyde	0.4120	0.4112	IH11	ug, Total	0.194	10	10F0369	PTF0430-01	06-11-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-01	06-11-2010
Acetone	ND	<0.300	IH11	ug, Total		10	10F0369	PTF0430-01	06-11-2010
Propionaldehyde	0.1740	0.1723	IH10	ug, Total	0.982	10	10F0369	PTF0430-01	06-11-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-01	06-11-2010
Butyraldehyde	0.09830	0.1051	IH10	ug, Total	6.69	10	10F0369	PTF0430-01	06-11-2010
Benzaldehyde	0.2840	0.2895	IH10	ug, Total	1.92	10	10F0369	PTF0430-01	06-11-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-01	06-11-2010
Valeraldehyde	0.08230	0.08604	IH10	ug, Total	4.44	10	10F0369	PTF0430-01	06-11-2010
o-Tolualdehyde	0.1500	0.1541	IH10	ug, Total	2.7	10	10F0369	PTF0430-01	06-11-2010
m-Tolualdehyde	0.1700	<0.0300	IH10	ug, Total	200	10	10F0369	PTF0430-01	06-11-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-01	06-11-2010
Hexaldehyde	0.3250	0.3347	IH10	ug, Total	2.94	10	10F0369	PTF0430-01	06-11-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-01	06-11-2010
10F0369-DUP2									
Formaldehyde	1.120	1.116	IH11	ug, Total	0.358	10	10F0369	PTF0430-11	06-11-2010
Acetaldehyde	0.2300	0.2334	IH11	ug, Total	1.47	10	10F0369	PTF0430-11	06-11-2010
Acrolein	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010
Acetone	ND	<0.300	IH11	ug, Total		10	10F0369	PTF0430-11	06-11-2010
Propionaldehyde	0.06980	0.07123	IH10	ug, Total	2.03	10	10F0369	PTF0430-11	06-11-2010
Crotonaldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010
Butyraldehyde	0.08170	0.08590	IH10	ug, Total	5.01	10	10F0369	PTF0430-11	06-11-2010
Benzaldehyde	0.1950	0.2051	IH10	ug, Total	5.05	10	10F0369	PTF0430-11	06-11-2010
Isovaleraldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010
Valeraldehyde	0.08150	0.07898	IH10	ug, Total	3.14	10	10F0369	PTF0430-11	06-11-2010
o-Tolualdehyde	0.05230	0.05216	IH10	ug, Total	0.268	10	10F0369	PTF0430-11	06-11-2010
m-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010
p-Tolualdehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010
Hexaldehyde	0.3340	0.3426	IH10	ug, Total	2.54	10	10F0369	PTF0430-11	06-11-2010
2,5-Dimethyl Benzaldehyde	ND	<0.0300	IH10	ug, Total		10	10F0369	PTF0430-11	06-11-2010

LCS

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10F0369-BS1								
Formaldehyde	0.45	0.5175	IH11	ug, Total	115%	22-134	10F0369	06-10-2010
Acetaldehyde	0.45	0.4518	IH11	ug, Total	100%	51-142	10F0369	06-10-2010
Acrolein	0.45	0.3673	IH10	ug, Total	82%	75-125	10F0369	06-10-2010

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LCS - Cont.

Analyte	Known Val.	Analyzed Val	Qual	Units	% Rec.	Target Range	Batch	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)								
10F0369-BS1								
Acetone	0.45	0.7717	IH11, L1	ug, Total	171%	75-125	10F0369	06-10-2010
Propionaldehyde	0.45	0.4886	IH10	ug, Total	109%	67-145	10F0369	06-10-2010
Crotonaldehyde	0.45	0.4041	IH10	ug, Total	90%	66-146	10F0369	06-10-2010
Butyraldehyde	0.45	0.4703	IH10	ug, Total	105%	56-141	10F0369	06-10-2010
Benzaldehyde	0.45	0.4398	IH10	ug, Total	98%	57-142	10F0369	06-10-2010
Isovaleraldehyde	0.45	0.4324	IH10	ug, Total	96%	66-144	10F0369	06-10-2010
Valeraldehyde	0.45	0.4586	IH10	ug, Total	102%	66-144	10F0369	06-10-2010
o-Tolualdehyde	0.45	0.4353	IH10	ug, Total	97%	39-130	10F0369	06-10-2010
m-Tolualdehyde	0.45	0.4381	IH10	ug, Total	97%	73-143	10F0369	06-10-2010
p-Tolualdehyde	0.45	0.4430	IH10	ug, Total	98%	66-147	10F0369	06-10-2010
Hexaldehyde	0.45	0.4488	IH10	ug, Total	100%	65-145	10F0369	06-10-2010
2,5-Dimethyl Benzaldehyde	0.45	0.4479	IH10	ug, Total	100%	75-144	10F0369	06-10-2010

LCS Dup

Analyte	Orig. Val.	Duplicate	Qual	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Aldehydes and Ketones by EPA TO-11A (Modified)												
10F0369-BSD1												
Formaldehyde		0.5085	IH11	ug, Total	0.45	113%	22-134	1.75	20	10F0369		06-10-2010
Acetaldehyde		0.4595	IH11	ug, Total	0.45	102%	51-142	1.69	20	10F0369		06-10-2010
Acrolein		0.3610	IH10	ug, Total	0.45	80%	75-125	1.73	20	10F0369		06-10-2010
Acetone		0.7971	IH11, L1	ug, Total	0.45	177%	75-125	3.24	20	10F0369		06-10-2010
Propionaldehyde		0.4764	IH10	ug, Total	0.45	106%	67-145	2.53	20	10F0369		06-10-2010
Crotonaldehyde		0.3960	IH10	ug, Total	0.45	88%	66-146	2.02	20	10F0369		06-10-2010
Butyraldehyde		0.4625	IH10	ug, Total	0.45	103%	56-141	1.67	20	10F0369		06-10-2010
Benzaldehyde		0.4385	IH10	ug, Total	0.45	97%	57-142	0.296	20	10F0369		06-10-2010
Isovaleraldehyde		0.4408	IH10	ug, Total	0.45	98%	66-144	1.92	20	10F0369		06-10-2010
Valeraldehyde		0.4572	IH10	ug, Total	0.45	102%	66-144	0.306	20	10F0369		06-10-2010
o-Tolualdehyde		0.4382	IH10	ug, Total	0.45	97%	39-130	0.664	20	10F0369		06-10-2010
m-Tolualdehyde		0.4397	IH10	ug, Total	0.45	98%	73-143	0.365	20	10F0369		06-10-2010
p-Tolualdehyde		0.4457	IH10	ug, Total	0.45	99%	66-147	0.608	20	10F0369		06-10-2010
Hexaldehyde		0.4491	IH10	ug, Total	0.45	100%	65-145	0.0668	20	10F0369		06-10-2010
2,5-Dimethyl Benzaldehyde		0.4428	IH10	ug, Total	0.45	98%	75-144	1.15	20	10F0369		06-10-2010

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CERTIFICATION SUMMARY

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

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

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

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

Samples were analyzed using methods outlined in references such as:

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

Analytical Comments:

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

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

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

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DATA QUALIFIERS AND DEFINITIONS

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

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

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

ADDITIONAL COMMENTS

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

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

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

№ 8614

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Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Project Contact: Shawn Ansbro

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

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

As Received by Lab:

Project No: 07-0082

Project Name: Countywide

Sampler (print): Nick Jennings, Rick Jones

Signature:

Sample I.D. No.	Type	Type	Type	Date	Time min	Sample Location	Number of Containers	Turn Around/Requirements	Analysis	Method	Aldehyde TO-11	Ketone TO-11	Carbonyl TO-11									Expected Conc. (H,M,L)	Hold	Remarks: Sample Flow Rates
C060210-01A				6/2/10	480	Cell Tower	1				X	X	X				PTF0430-01							0.395 l/min
C060210-02A				6/2/10	480	Cell Tower	1				X	X	X				-02							0.346 "
C060210-03A				6/2/10	480	Cell Tower	1				X	X	X				-03							0.419 "
G060210-01A				6/2/10	480	Campground	1				X	X	X				-04							0.400 l/min
G060210-02A				6/2/10	480	Campground	1				X	X	X				-05							0.381 "
G060210-03A				6/2/10	480	Campground	1				X	X	X				-06							0.408 "
S060210-01A				6/2/10	480	School	1				X	X	X				-07							0.298 l/min
S060210-02A				6/2/10	480	School	1				X	X	X				-08							0.400 "
S060210-03A				6/2/10	480	School	1				X	X	X				-09							0.431 "
W060210-01A				6/2/10	480	Wetland	1				X	X	X				-10							0.403 l/min
W060210-02A				6/2/10	480	Wetland	1				X	X	X				-11							0.443 "
W060210-03A				6/2/10	480	Wetland	1				X	X	X				-12							0.443 "
060210A-A																								
~~[illegible]~~				6/2/10		Field Blank	1				X	X	X				-13							No Flow Field Blank

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time	Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	6/4/10 1600						
[signature]	6/2/10 1500					[signature]	6/8/10 10:30

Comments:

Custody Seal Melted Ice 19.0°C

Distributor: White - File; Yellow - Lab

Countywide Recycling & Disposal Facility
Ambient Air Monitoring
2nd Quarter Report - 2010

June 30, 2010

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

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 1: Event #162: April 7/8, 2010

Analyte					Monitoring Location				
					School	***Cell Tower***	***Campground***	***Wetland***	
								Co-Located	
	Prevailing Wind Direction				**C\U**	**C\C**	**D\D**	**D\D**	
	All results in ug/m3								
Method TO-15 Modified	**ISL**	**Acute MRL**	**Chronic MRL**	**RSL**					
Acetone	62,000	61,762	30,881	32,000	28	9.2J	25	20	12
Benzene	30	29	10	**0.31**	**0.45J**	**0.38J**	0.30J	**0.34J**	**0.38J**
Bromoform	NA	NA	NA	2.2	ND	ND	ND	ND	ND
Bromomethane	200	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	20	NA	NA	0.066	ND	ND	ND	ND	ND
Bromodichloromethane	NA	NA	NA	0.11	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	NA	0.66J	0.33J	0.30J	0.36J	0.23J
Carbon disulfide	7,000	NA	934	730	0.17J	0.13J	ND	0.097J	0.098J
Carbon tetrachloride	200	188	188	**0.41**	**0.58J**	**0.56J**	**0.56J**	**0.49J**	**0.53J**
Chlorobenzene	10,000	NA	NA	52	ND	ND	ND	ND	ND
Dibromochloromethane	NA	NA	NA	**0.09**	ND	ND	**2.5**	ND	ND
Chloroethane	40,000	39,583	NA	NA	0.16J	ND	ND	0.12J	0.10J
Chloroform	500	488	98	0.11	ND	ND	ND	ND	ND
Chloromethane	1,000	1,033	103	94	1.3	1.2	1.3	1.1	1.5
2-Chlorotoluene	140	NA	NA	NA	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	6,300	ND	ND	ND	ND	0.19J
1,4- Dichlorobenzene	10,000	12,020	60	0.22	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	NA	210	2.4	2.4	2.5	2.4	2.7
1,1-Dichloroethane	4400	NA	NA	1.5	ND	ND	ND	ND	ND
1,2-Dichloroethane	270	NA	2428	**0.0094**	ND	ND	ND	**0.27J**	ND
cis-1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethylbenzene	40,000	43,419	1,303	0.97	ND	ND	ND	ND	ND
4-Ethyltoluene	NA	NA	NA	NA	ND	ND	ND	1.2J	ND
Heptane	NA	NA	NA	NA	0.36J	0.28J	0.40J	0.43J	0.49J
Hexachlorobutadiene	320	NA	NA	0.11	ND	ND	ND	ND	ND
Hexane	NA	NA	2,115	730	0.60J	0.44J	0.65J	0.54J	0.57J
Methyl ethyl ketone	50,000	NA	NA	5,200	6.7	1.6J	4.9	4.3	1.8J
Methyl isobutyl ketone	30,000	NA	NA	3,100	0.42J	ND	0.28J	0.33J	ND
Methylene chloride	2,000	2,084	1,042	5.2	0.98J	0.91J	1.6J	1.1J	1.2J
Styrene	9,000	8,520	852	1,000	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	NA	NA	ND	ND	ND	ND	ND
Tetrachloroethene	1,400	1,356	271	0.41	ND	ND	ND	ND	ND
Toluene	4,000	3,768	301	5,200	1.1	0.60J	0.95	0.89	1.1
Trichloroethene	10,000	10,920	546	1.20	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10,000	10,800	NA	5,200	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	0.50J	0.49J	0.50J	0.50J	0.53J
Trichlorofluoromethane	NA	NA	NA	730	1.2	0.39J	1.6	1.3	1.4
1,2,4-Trimethylbenzene	NA	NA	NA	7.3	1.0	0.39J	0.58J	6.7	3.0
1,3,5-Trimethylbenzene	NA	NA	NA	NA	ND	ND	ND	1.5	0.57J
2,2,4-Trimethylpentane	NA	NA	NA	NA	0.21J	ND	ND	ND	ND
Vinyl Chloride	1,000	1,278	77	0.16	ND	ND	ND	ND	ND
m/p-Xylene	9,000	8,687	8,687	730	0.86	ND	ND	0.80J	1.1
o-Xylene	9,000	8,687	8,687	730	0.35J	ND	ND	0.38J	0.49J

*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 Regional Screening Level (May 2010)
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.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 1: Event #163: May 4/5, 2010

Analyte					Monitoring Location				
					School	***Cell Tower***		***Campground***	***Wetland***
						Co-Located			
	Prevailing Wind Direction				**C\U**	**C\U**		**D\D**	**D\C**
	All results in ug/m3								
Method TO-15 Modified	**ISL**	**Acute MRL**	**Chronic MRL**	**RSL**					
Acetone	62,000	61,762	30,881	32,000	18	7.3J	28	17	24
Benzene	30	29	10	**0.31**	**0.65**	**0.33J**	**0.32J**	**0.38J**	**0.37J**
Bromoform	NA	NA	NA	2.2	ND	ND	ND	ND	ND
Bromomethane	200	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	20	NA	NA	0.066	ND	ND	ND	ND	ND
Bromodichloromethane	NA	NA	NA	0.11	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	NA	0.51JB	0.24JB	0.18JB	0.34JB	0.54JB
Carbon disulfide	7,000	NA	934	730	0.23J	ND	6.8	ND	0.11J
Carbon tetrachloride	200	188	188	**0.41**	**0.63J**	**0.73J**	**0.68J**	**0.69J**	**0.55J**
Chlorobenzene	10,000	NA	NA	52	ND	ND	ND	ND	ND
Dibromochloromethane	NA	NA	NA	0.09	ND	ND	ND	ND	ND
Chloroethane	40,000	39,583	NA	NA	0.11J	ND	0.38J	ND	0.12J
Chloroform	500	488	98	**0.11**	ND	**0.23J**	**0.22J**	ND	ND
Chloromethane	1,000	1,033	103	94	1.5	1.3	1.7	1.2	1.1
2-Chlorotoluene	140	NA	NA	NA	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	6,300	0.24J	0.23	0.14J	0.22J	0.23J
1,4- Dichlorobenzene	10,000	12,020	60	0.22	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	NA	210	2.4	2.5	2.5	2.5	2.4
1,1-Dichloroethane	4400	NA	NA	1.5	ND	ND	ND	ND	ND
1,2-Dichloroethane	270	NA	2428	**0.0094**	ND	ND	**2.8**	ND	ND
cis-1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethylbenzene	40,000	43,419	1,303	0.97	ND	ND	ND	ND	ND
4-Ethyltoluene	NA	NA	NA	NA	ND	0.34J	ND	ND	ND
Heptane	NA	NA	NA	NA	0.76J	0.93J	0.42J	0.66J	0.53J
Hexachlorobutadiene	320	NA	NA	0.11	ND	ND	ND	ND	ND
Hexane	NA	NA	2,115	730	1.1J	0.84J	3.5	0.81J	1.0J
Methyl ethyl ketone	50,000	NA	NA	5,200	4.3	1.0J	3.5	4.0	5.6
Methyl isobutyl ketone	30,000	NA	NA	3,100	0.28J	ND	ND	0.25J	0.32J
Methylene chloride	2,000	2,084	1,042	**5.2**	0.49J	1.3J	**6.5**	0.55J	0.49J
Styrene	9,000	8,520	852	1,000	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	NA	NA	ND	ND	0.19J	ND	ND
Tetrachloroethene	1,400	1,356	271	0.41	0.32J	ND	ND	ND	ND
Toluene	4,000	3,768	301	5,200	1.3	1.1	1.8	0.78	0.67J
Trichloroethene	10,000	10,920	546	1.20	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10,000	10,800	NA	5,200	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	0.51J	0.53J	0.48J	0.53J	0.51J
Trichlorofluoromethane	NA	NA	NA	730	1.3	1.7	2.0	1.4	1.2
1,2,4-Trimethylbenzene	NA	NA	NA	7.3	0.81J	1.5	0.45J	0.43J	0.69J
1,3,5-Trimethylbenzene	NA	NA	NA	NA	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	NA	0.44J	ND	ND	ND	ND
Vinyl Chloride	1,000	1,278	77	0.16	ND	ND	ND	ND	ND
m/p-Xylene	9,000	8,687	8,687	730	1.1	0.81J	0.54J	0.64J	0.62J
o-Xylene	9,000	8,687	8,687	730	0.43J	0.30J	ND	ND	ND

*Prevailing Wind Direction with respect to the landfill
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V: Variable

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Laboratory Data Qualifiers:
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E = Exceeds calibration range of instrument
TICs: Compound has been tentatively identified but the estimated concentration is highly uncertain.
EST= Estimated concentration due to pressurization diluting sample resulting in higher reporting limits.

Countywide Recycling & Disposal Facility
EPA Method TO-15 Modified: Volatile Organic Compounds
Table 1: Event #164: June 2/3, 2010

Analyte					Monitoring Location				
					School		*Cell Tower*	*Campground*	*Wetland*
					Co-Located				
	Prevailing Wind Direction				U\U		U\U	D\D	D\D
					All results in ug/m3				
Method TO-15 Modified	**ISL**	**Acute MRL**	**Chronic MRL**	**RSL**					
Acetone	62,000	61,762	30,881	32,000	13	16	16	19	21
Benzene	30	29	10	**0.31**	0.25J	**0.36J**	0.30J	0.20J	0.22J
Bromoform	NA	NA	NA	2.2	ND	ND	ND	ND	ND
Bromomethane	200	194	19	5.2	ND	ND	ND	ND	ND
1,3-Butadiene	20	NA	NA	0.066	ND	ND	ND	ND	ND
Bromodichloromethane	NA	NA	NA	0.11	ND	ND	ND	ND	ND
tert-Butyl alcohol	NA	NA	NA	NA	0.40J	0.46J	0.76J	0.53J	0.28J
Carbon disulfide	7,000	NA	934	730	0.16J	0.77J	ND	ND	0.15J
Carbon tetrachloride	200	188	188	**0.41**	**0.54J**	**0.60J**	**0.53J**	**0.59J**	**0.76J**
Chlorobenzene	10,000	NA	NA	52	ND	ND	ND	ND	ND
Dibromochloromethane	NA	NA	NA	**0.09**	ND	ND	ND	**2.6**	ND
Chloroethane	40,000	39,583	NA	NA	ND	ND	ND	ND	0.11J
Chloroform	500	488	98	**0.11**	ND	ND	**0.31J**	ND	**0.30J**
Chloromethane	1,000	1,033	103	94	1.3	1.4	1.7	1.1	1.3J
2-Chlorotoluene	140	NA	NA	NA	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	6,300	ND	ND	ND	ND	ND
1,4- Dichlorobenzene	10,000	12,020	60	0.22	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	NA	210	2.6	2.7	2.9	2.6	2.6
1,1-Dichloroethane	4400	NA	NA	1.5	ND	ND	ND	ND	ND
1,2-Dichloroethane	270	NA	2428	0.0094	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethylbenzene	40,000	43,419	1,303	0.97	ND	ND	ND	ND	ND
4-Ethyltoluene	NA	NA	NA	NA	ND	0.36J	ND	ND	ND
Heptane	NA	NA	NA	NA	0.28J	0.31J	0.24J	0.29J	0.29J
Hexachlorobutadiene	320	NA	NA	0.11	ND	ND	ND	ND	ND
Hexane	NA	NA	2,115	730	0.39J	0.65J	0.49J	0.42J	0.44J
Methyl ethyl ketone	50,000	NA	NA	5,200	2.3J	2.0J	2.2J	3.8	4.1
Methyl isobutyl ketone	30,000	NA	NA	3,100	0.21J	0.24J	0.25J	0.30J	0.79J
Methylene chloride	2,000	2,084	1,042	5.2	0.54J	1.2J	1.00J	0.86J	1.1J
Styrene	9,000	8,520	852	1,000	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	NA	NA	ND	ND	ND	ND	ND
Tetrachloroethene	1,400	1,356	271	0.41	ND	ND	ND	ND	ND
Toluene	4,000	3,768	301	5,200	0.50J	0.92	0.49J	0.40J	0.50J
Trichloroethene	10,000	10,920	546	1.20	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	10,000	10,800	NA	5,200	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	0.50J	0.49J	0.55J	0.52J	0.55J
Trichlorofluoromethane	NA	NA	NA	730	1.5	1.7	1.5	1.5	1.6
1,2,4-Trimethylbenzene	NA	NA	NA	7.3	0.43J	1.8	0.62J	ND	0.54J
1,3,5-Trimethylbenzene	NA	NA	NA	NA	ND	0.35J	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	NA	ND	ND	ND	ND	ND
Vinyl Chloride	1,000	1,278	77	0.16	ND	ND	ND	ND	ND
m/p-Xylene	9,000	8,687	8,687	730	ND	1.1	ND	ND	ND
o-Xylene	9,000	8,687	8,687	730	ND	0.45J	ND	ND	ND

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