

**Countywide Recycling & Disposal Facility  
Ambient Air Monitoring  
July 20, 2007**

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

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

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

**Countywide Recycling & Disposal Facility  
Ambient Air Monitoring Report  
July 20, 2007  
Monitoring Events #3, 4 & 5**

## **1.0 INTRODUCTION**

Beginning on Monday May 21, 2007 ambient air sampling is being conducted every six days as mandated by Order 5.A. of the Ohio EPA Director's Findings and Orders dated March 28, 2007. This report covers the analytical results from Monitoring Events #3, 4 & 5. Monitoring event #3 began on Saturday June 2 and ended on Sunday June 3. Monitoring event #4 began on Friday June 8 and ended on Saturday June 9. Monitoring event #5 began on Thursday June 14 and ended on Friday June 15.

Air samples were collected over a 24-hour period at four locations: Bolivar Elementary School; the cell tower on the Countywide facility; near the top of the hill at the KOA campground to the northeast of the landfill; and near the small bridge along the road that borders the wetland area immediately to the east of the landfill (Figure 1). The road is the specified route for the trucks entering the Countywide facility. The wetland is consistently in the area of maximum impact predicted by the air model. Since there are no people working or residing in the wetland, it is being considered a temporary location until such time as the Agency specifies a fourth permanent monitoring location. The campground is also frequently in the area of impact predicted by the air model.

For the first two rounds of sampling the monitoring equipment was placed within about 10 feet of the road. In an attempt to minimize the effects of motor vehicle emissions, the equipment was placed approximately 30-50 feet back from the road for the monitoring events described in this report.

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

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

All analyses were performed by Integrated Analytical Laboratory (IAL), Randolph, NJ. Certification numbers: ELAP-11402; NJDEP-14751; AIHA-100201.

As a conservative first evaluation, the concentrations of chemicals detected in the air samples were compared to the corresponding USEPA Region 9 Preliminary Remediation Goals (PRGs). The USEPA Region 9 PRG is the concentration of a chemical in the ambient air that is estimated to be without significant risk to a person who would breathe that level of chemical continuously over many decades. The Region 9 PRGs are derived using conservative mathematical formulas and do not represent the level of a chemical in

the air (or other environmental media) where health effects are likely to occur. Region 9 PRGs are generally accepted as conservative screening values, such that if the concentration of a chemical in the air is less than the corresponding PRG, most public health officials and regulators are confident that there is no risk to human health. On the other hand, an analytical result that exceeds the corresponding PRG does not mean that there is an unacceptable risk to public health. The chemical that were detected in these Monitoring Events are commonly found at low levels in ambient air. For some compounds such as benzene, the mathematically-derived Region 9 PRG of 0.25 ug/m<sup>3</sup> is lower than the average background concentration of 1.96 ug/m<sup>3</sup> in ambient air in Ohio (Ohio EPA, *Portsmouth Ohio Air Quality Study 2003*). Consequently, finding certain chemicals in ambient air at levels above PRGs that are very close to analytical detection limits is not uncommon and may simply reflect fluctuations in background sources. It should be noted that not all of the compounds found in the air samples have corresponding PRGs.

Ambient environmental/climate conditions are discussed in Section 2.0. Results of the monitoring are discussed in Section 3.0 and summarized in Section 4.0 of this report. Analytical results from the laboratory are provided in Appendix A for Monitoring Event #3, in Appendix B for Monitoring Event #4, and Appendix C for event #5.

## **2.0 AMBIENT CONDITIONS**

### Monitoring Event #3, June 2/3, 2007:

This sampling event occurred on a Saturday and Sunday. During this time period, the high temperature was 87 deg. F and the low was 60 deg. F, with average humidity of 80%. Winds were calm or light, predominately out of the south southeast. This suggests that the elementary school in Bolivar would have been upwind of the landfill during most of this sampling period. There was one odor complaint during this time period from a resident on Haut Street in East Sparta.

### Monitoring Event #4, June 8/9, 2007:

This sampling event occurred on a Friday and ended on a Saturday. During this time period the high temperature was 89 deg. F and the low was 64 deg. F, with average humidity of 79%. Winds averaged 8 mph with gusts between 18-28 mph, predominately from the south southwest with fog, rain and a thunderstorm.

An odor complaint registering a 4 on the Nasal Ranger was received on the morning of June 8 from the owner of the Bear Creek KOA campground on Downing Street. Gas well drilling was occurring at the time. Although the levels of VOCs found in the summa canister sample from the campground were similar to the levels found at the three other locations, the concentrations of hydrogen chloride were notably higher than other monitoring locations, but the tubes were also wet. As stated previously, the humid ambient conditions may have contributed to an overestimate of the concentrations of hydrogen chloride and hydrogen fluoride that were actually present in the air at that time.

Monitoring Event #5: June 14/15, 2007:

This sampling event began on a Thursday and ended on a Friday. During this time period, the high temperature was 81 deg. F, the low temperature was 55 deg. F and the average humidity was 82%. Winds were calm to light with gusts between 12 and 17 mph and variable coming from the northeast, southeast and east. Two odor complaints were reported, one in the afternoon of June 14 and one on the morning of June 15-both from residents on Sherman Church to the west/southwest of the landfill.

### **3.0 ANALYTICAL RESULTS**

The laboratory analyzed the air samples for a large number of chemicals. Only those results that exceeded Region 9 PRGs will be discussed in the body of the report. Other compounds may have been detected in a sample, but were quantified at concentrations below the respective PRG. All of the analytical results from the laboratory are provided in the Appendices.

#### **3.1 Volatile Organic Compounds**

Compounds detected by Method TO-15 modified are summarized in Tables 1, 2 and 3.

Monitoring Event #3, June 2/3, 2007:

Benzene was detected at concentrations above the Region 9 PRG of 0.25 ug/m<sup>3</sup> in the samples from the Bolivar Elementary School (2 ug/m<sup>3</sup>) and from the cell tower (2.3 ug/m<sup>3</sup>). 1, 2, 4 Trimethylbenzene was detected at the school (8.3 ug/m<sup>3</sup>) and at the cell tower locations (21 ug/m<sup>3</sup>). 1, 3, 5-Trimethylbenzene was also detected at the school (3.2 ug/m<sup>3</sup>) and at the cell tower (17 ug/m<sup>3</sup>). The Region 9 PRG for both of the trimethylbenzenes is 6.2 ug/m<sup>3</sup>. Trichloroethylene was detected above the PRG of 0.017 ug/m<sup>3</sup> at the school (2.9 ug/m<sup>3</sup>) and at the cell tower (4.4 ug/m<sup>3</sup>). Additionally, acetaldehyde was detected above the PRG of 0.87 ug/m<sup>3</sup> at all four locations: elementary school 9.4 ug/m<sup>3</sup>; cell tower 29 ug/m<sup>3</sup>; KOA campground 18 ug/m<sup>3</sup>; and the wetland 15.7 ug/m<sup>3</sup>.

Monitoring Event #4, June 8/9, 2007:

Acetonitrile was found above the PRG of 62 ug/m<sup>3</sup> at the school (74 ug/m<sup>3</sup>) and below the PRG at the cell tower (32 ug/m<sup>3</sup>) and at the campground (10 ug/m<sup>3</sup>). Acetaldehyde was present above the PRG of 0.87 ug/m<sup>3</sup> at all four locations: elementary school 12 ug/m<sup>3</sup>; cell tower 31 ug/m<sup>3</sup>; campground 11 ug/m<sup>3</sup>; and the wetland 6.5 ug/m<sup>3</sup>. Although several other VOCs were detected, none was present above the respective PRGs.

Monitoring Event #5, June 14/15, 2007:

Benzene was detected at concentrations above the PRG of 0.25 ug/m<sup>3</sup> at the elementary school 1.9 ug/m<sup>3</sup> and at the cell tower 1.8 ug/m<sup>3</sup>. 1, 2, 4-Trimethylbenzene was also found above the PRG of 6.2 ug/m<sup>3</sup> at the wetland 9.9 ug/m<sup>3</sup>, but was not detected at the other three locations. Acetaldehyde was detected above the PRG of 0.87 ug/m<sup>3</sup> at the elementary school 3.9 ug/m<sup>3</sup> and at the campground 3.4 ug/m<sup>3</sup>.

### 3.2 Sulfur Compounds

No sulfur compounds were detected at any location during these three monitoring events.

### 3.3 Aldehydes and Ketones

In order to obtain a continuous 24 hours of data, three separate gel collection tubes were sequentially exposed to ambient air for a period of approximately 8 hours each. Consequently there are three separate sample results for each location for each monitoring event.

#### Monitoring Event #3, June 2/3, 2007:

Formaldehyde was detected at a concentration of  $0.83 \text{ ug/m}^3$  in the first of the three tubes collected from the cell tower. Formaldehyde was detected in the second and third tubes collected from the campground at concentrations of  $0.58$  and  $0.26 \text{ ug/m}^3$ . Formaldehyde was found in the first and second tubes collected from the wetlands area at concentrations of  $0.69$  and  $0.25 \text{ ug/m}^3$ . All of these results are above the PRG of  $0.15 \text{ ug/m}^3$  for formaldehyde. Acetone was detected in the second and third tubes from the wetlands area at concentrations of  $1.3$  and  $1.7 \text{ ug/m}^3$ . No aldehydes were detected by EPA Method TO-11A in the samples collected from the elementary school. However, as indicated above, acetaldehyde was tentatively identified by Method TO-15 at all four locations during this sampling event.

#### Monitoring Event #4, June 8/9, 2007:

Formaldehyde was quantified above the PRG of  $0.15 \text{ ug/m}^3$  at a concentration of  $0.83 \text{ ug/m}^3$  in the first of the three sample tubes taken from the cell tower; in the second and third tubes from the campground  $0.58$  and  $0.26 \text{ ug/m}^3$ ; and in the first and second tubes from the wetlands  $0.69$  and  $0.25 \text{ ug/m}^3$ . Acetone was also found at low levels in two of the sample tubes from the wetlands. Acetone was present at all four locations as analyzed by Method TO-15. No aldehydes were detected at the elementary school during this sampling event by Method TO-11A.

#### Monitoring Event #5, June 14/15, 2007:

Formaldehyde was detected in the first two of the three eight-hour sample tubes collected from the Bolivar Elementary School at concentrations of  $1.2$  and  $0.48 \text{ ug/m}^3$ . Formaldehyde was detected in the first and third eight-hour sample tubes collected from the Cell Tower at concentrations of  $0.79$  and  $0.28 \text{ ug/m}^3$ . Acetaldehyde was detected in the first of the three sample tubes from the cell tower at  $0.5 \text{ ug/m}^3$ . However, as indicated above acetaldehyde was detected at both the elementary school and the campground by EPA Method TO-15. No aldehydes were detected by Method TO-11A in the samples taken from the KOA campground or the wetland area.

### 3.4 Hydrogen Chloride and Hydrogen Fluoride

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

#### Monitoring Event #3, June 2/3, 2007:

Hydrogen fluoride and hydrogen chloride were both detected in the third tube taken from the elementary school at concentrations of  $4.6\text{ug}/\text{m}^3$  and  $4.2\text{ug}/\text{m}^3$ , respectively. Hydrogen chloride was detected in the third tube from the cell tower  $1.6\text{ug}/\text{m}^3$ , but no hydrogen fluoride was detected in any of the three tubes from the cell tower during this event. Hydrogen chloride was detected in the second  $8.1\text{ug}/\text{m}^3$  and third  $9.2\text{ug}/\text{m}^3$  tubes from the campground, but no hydrogen fluoride was detected. Hydrogen chloride was detected in the third tube from the wetland at  $21\text{ug}/\text{m}^3$ , and hydrogen fluoride was detected in the first tube from the wetland at  $1.7\text{ug}/\text{m}^3$ .

The fact that hydrogen chloride and hydrogen fluoride were detected both upwind (elementary school) and downwind (campground and wetland) suggests that even if the landfill is a potential source of these chemicals, it is not the only source.

#### Monitoring Event #4, June 8/9, 2007:

Hydrogen chloride was found in the first  $2.3\text{ug}/\text{m}^3$  and second  $1.8\text{ug}/\text{m}^3$  tubes from the elementary school, but no hydrogen fluoride was detected in any of the samples from the school. Hydrogen chloride was found in the second tube from the cell tower at  $5.5\text{ug}/\text{m}^3$ , hydrogen fluoride was detected in the first  $2.1\text{ug}/\text{m}^3$  and second  $3.9\text{ug}/\text{m}^3$  tubes from the cell tower. Hydrogen chloride was found in the second  $11\text{ug}/\text{m}^3$  and third  $175\text{ug}/\text{m}^3$  tubes from the campground, but no hydrogen fluoride was detected in any of the samples from the campground.

The lab flagged the second tube taken at the cell tower as having a possible breakthrough. This suggests that the mass of chloride and fluoride ion was greater than the sorbent gel was designed to capture. Since the estimated concentrations of hydrogen chloride and hydrogen fluoride in the air are consistent with the results from other samples, it is possible that the breakthrough may have been the result of drawing too large a volume of air through the sample tube.

The lab indicated that both samples from the campground had chloride in the back of the tube but not in the front. This suggests that the tube may have been placed on the pump backwards. These issues identified by the laboratory indicate that the sample results may not be a true reflection of the hydrogen fluoride and hydrogen chloride present in the air at the time the samples were collected. As discussed in Section 3.0 Ambient Conditions, the air was extremely humid on June 8/9 with fog and rain. Hydrogen fluoride and hydrogen chloride are extremely hygroscopic and tend to form droplets (essentially of

acid) when there is abundant moisture in the air-such as would have been the case during this time period. If fine acidic droplets were drawn onto the sorbent gel, the analytical result would tend to overestimate rather than underestimate the concentrations of these anions that were actually present in the air.

As with the previous sampling event, the fact that hydrogen chloride and hydrogen fluoride were found in both the upwind and downwind locations suggests sources other than or in addition to the landfill.

Monitoring Event #5, June 14/15, 2007:

Hydrogen chloride was found in the third tube taken from the elementary school at a concentration of  $1.1\text{ug/m}^3$ , but no hydrogen fluoride was detected in any of the samples from the school. Hydrogen chloride was found in the first and second tubes from the cell tower at concentrations of 14 and  $2.2\text{ug/m}^3$ , and hydrogen fluoride was detected in the first tube from the cell tower at a concentration of  $3.8\text{ug/m}^3$ . Hydrogen chloride was detected in the first and second tubes from the campground at concentrations of 3.4 and  $10\text{ug/m}^3$ , but no hydrogen fluoride was detected in the samples from the campground. Hydrogen chloride was also found in all three of the tubes collected from the wetlands area at concentrations of 3.5, 2.2 and  $4.0\text{ug/m}^3$ , but no hydrogen fluoride was found in any of the samples from the wetland.

The laboratory indicated that a breakthrough may have occurred in the first tube from the cell tower, the second tube from the campground and the first tube from the wetland based on finding more than 10% of the mass in the back section of the tube. The first tube from the campground and the second tube from the wetland had chloride in the back of the tube but not in the front of the tube. As explained previously, it is possible that the high humidity may have played a role in the breakthroughs and placing the tubes on the pump backwards may account for the instances where chloride was found in the back section of the tube but not in the front.

The light and variable winds during this monitoring event make it somewhat challenging to determine upwind and downwind with respect to the landfill.

#### **4.0 SUMMARY**

Several compounds were detected at concentrations exceeding the respective conservative Region 9 PRGs for long-term continuous exposure. However, because of constantly changing environmental conditions related to the weather, exposures to any individual person are transient-such that the real risks are much, much lower than a simple comparison to the PRGs might suggest. There are multiple potential sources for most of the compounds that were found in the monitoring samples. In addition to the landfill, common consumer products, building materials and automotive emissions could have contributed to presence of the chemicals that were measured in the air samples.

The analytical results from the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> rounds of sampling are fairly consistent with previous findings and do not suggest either an immediate or a long-term threat to public health.

Countywide Recycling & Disposal Facility

Monthly Report #2

July 20, 2007

**TABLES**

<b>Countywide Recycling &amp; Disposal Facility</b>					
<b>Air Monitoring Analytical Results</b>					
<b>Table 1: Samples Collected June 2/3, 2007</b>					
Analyte	Monitoring Location				
	PRG	School	Cell Tower	Campground	Wetland
All results in ug/m3					
<b>Method TO-15 Modified</b>					
Acetone	3300	31	54	64	25
Benzene	<b>0.25</b>	2	2.3	ND	ND
Bromomethane	5.2	ND	ND	2.2	ND
t-Butyl-alcohol	NA	2.1	5.2	ND	ND
Carbon disulfide	730	ND	1.8	ND	ND
Chloromethane	95	2.4	1.4	2.3	2.5
2-Chlorotoluene	73	ND	11	ND	ND
Cyclohexane	6200	ND	1.8	ND	ND
1,2-Dichlorobenzene	210	ND	11	ND	ND
1,3-Dichlorobenzene	110	ND	9.6	ND	ND
1,4-Dichlorobenzene	0.31	ND	9.6	ND	ND
Dichlorodifluoromethane	210	2.8	ND	ND	ND
cis-1,2-Dichloroethylene	37	ND	2	ND	ND
trans-1,2-Dichloroethylene	73	ND	2.1	ND	ND
Ethylbenzene	1100	14	3.6	ND	ND
4-Ethyltoluene	NA	6.9	12	ND	ND
Hexachlorobutadiene	0.086	ND	19	ND	ND
Hexane	210	1.8	1.9	ND	ND
Methyl ethyl ketone	5100	4	12	6	5.9
Methyl isobutyl ketone	3100	ND	ND	ND	ND
Methylene Chloride	4.1	ND	1.8	ND	ND
Styrene	1100	ND	4.9	ND	ND
Toluene	400	2.7	3.5	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	ND	4.7	ND	ND
Trichloroethylene	<b>0.017</b>	2.9	4.4	ND	ND
1,2,4-Trimethylbenzene	<b>6.2</b>	8.3	21	ND	ND
1,3,5-Trimethylbenzene	<b>6.2</b>	3.2	17	ND	ND
m/p-Xylene	110	70	20	6.3	5.9
o-Xylene	110	23	9.6	ND	ND
<b>Tentatively Identified Compounds</b>					
Acetonitrile	62	ND	56	3.5	4.2
Acetaldehyde	<b>0.87</b>	9.4	29	18	15.7
1-Butanol	9.5	ND	8.2	ND	3.6
Isobutane	NA	15	ND	ND	ND
Butane	NA	ND	12	16	14
2-Methyl butane	NA	ND	ND	ND	ND
Ethanol	NA	ND	6.6	2.6	3.6
Isopropyl alcohol	NA	ND	14	ND	ND
Pentane	NA	ND	19	ND	2.9
Hexanal	NA	ND	ND	5.3	ND
Nonanal	NA	ND	ND	7.6	ND
1-Propyne	NA	273	ND	ND	ND

Chlorodifluoroacetamide	NA	496	ND	ND	ND
2-Methyl-2-propenal	NA	ND	3.7	ND	ND
(Aminomethyl)cyclopropane	NA	ND	12	3.2	3.8
Tetrahydrofuran	<b>0.99</b>	ND	7.4	ND	ND
2-Methyl-1,3-butadiene	NA	ND	ND	4.4	8.6
Octodrine	NA	ND	ND	623	ND
Cyclopropanecarboxamide	NA	ND	ND	ND	11
ND = Not Detected					
NA = Not Availabe					
Shading indicates result exceeds PRG					

<b>Countywide Recycling &amp; Disposal Facility</b>					
<b>Air Monitoring Analytical Results</b>					
<b>Table 2: Samples Collected June 8/9, 2007</b>					
Analyte	Monitoring Location				
	PRG	School	Cell Tower	Campground	Wetland
All results in ug/m3					
<b>Method TO-15 Modified</b>					
Acetone	3300	684	33	20	15
Benzene	0.25	ND	ND	ND	ND
Bromomethane	5.2	2.8	3.7	ND	ND
t-Butyl-alcohol	NA	ND	ND	ND	ND
Carbon Disulfide	730	ND	4	ND	ND
Chloromethane	95	ND	2.4	1.3	1.7
Ethylbenzene	1100	ND	ND	2.4	ND
4-Ethyltoluene	NA	ND	ND	ND	ND
Heptane	NA	ND	ND	ND	ND
Hexane	210	ND	ND	ND	ND
Methyl ethyl ketone	5100	7.7	6.8	3.7	1.7
Methyl isobutyl ketone	3100	ND	ND	ND	ND
Methyl-t-butyl ether	7.4	ND	ND	ND	ND
Toluene	400	1.9	ND	4	ND
1,2,4-Trimethylbenzene	6.2	ND	ND	ND	ND
1,3,5-Trimethylbenzene	6.2	ND	ND	ND	ND
Trichloroethylene	0.017	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	ND	ND	ND	ND
m/p-Xylene	110	ND	ND	9.6	ND
o-Xylene	110	ND	ND	3.1	ND
<b>Tentatively Identified Compounds</b>					
Acetonitrile	<b>62</b>	74	32	10	ND
Acetaldehyde	<b>0.87</b>	12	31	11	6.5
3-Butenoic acid	NA	ND	15	ND	ND
1-Butanol	9.5	ND	4.8	ND	ND
Isobutane	NA	ND	ND	ND	ND
Butane	NA	15	19	12	8.3
Ethanol	NA	ND	4.5	2.3	ND
Isopropyl alcohol	NA	ND	ND	6.7	ND
Pentane	NA	ND	7.4	ND	ND
(Aminomethyl)cyclopropane	NA	4.1	5	ND	ND
1R-alpha-pinene	NA	67	ND	ND	ND
ND = Not Detected					
NA = Not Available					
Shading indicates result exceeds PRG					

<b>Countywide Recycling &amp; Disposal Facility</b>					
<b>Air Monitoring Analytical Results</b>					
<b>Table 3: Samples Collected June 14/15, 2007</b>					
<b>Analyte</b>	<b>Monitoring Location</b>				
	<b>PRG</b>	<b>School</b>	<b>Cell Tower</b>	<b>Campground</b>	<b>Wetland</b>
	All results in ug/m3				
<b>Method TO-15 Modified</b>					
Acetone	3300	ND	ND	ND	ND
Benzene	<b>0.25</b>	1.9	1.8	ND	ND
t-Butyl-alcohol	NA	ND	ND	ND	ND
Chloromethane	95	2.1	1.7	1.4	1.4
Ethylbenzene	1100	ND	6.6	ND	15
4-Ethyltoluene	NA	ND	ND	ND	ND
Heptane	NA	ND	ND	ND	ND
Hexane	210	2.4	3.6	ND	ND
Methyl ethyl ketone	5100	4.5	2.7	3.7	ND
Methyl isobutyl ketone	3100	ND	ND	ND	ND
Methyl-t-butyl ether	7.4	ND	ND	ND	ND
Toluene	400	5.2	ND	23	2.7
1,2,4-Trimethylbenzene	<b>6.2</b>	ND	ND	ND	<b>9.9</b>
1,3,5-Trimethylbenzene	6.2	ND	ND	ND	3.7
Trichloroethylene	0.017	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	ND	ND	ND	ND
m/p-Xylene	110	2.6	22	ND	70
o-Xylene	110	ND	7.8	ND	27
<b>Tentatively Identified Compounds</b>					
Acetonitrile	62	6.4	ND	6	ND
Acetaldehyde	0.87	3.9	ND	3.4	ND
Butane	NA	5.7	4	3.1	ND
2-Methyl butane	NA	24	12.4	21	ND
Pentane	NA	4.7	7.1	7.1	ND
2-Methyl pentane	NA	4.9	ND	ND	ND
Cyclopentene	NA	4.7	ND	ND	ND
Benzene, 1-ethyl-2-methyl	NA	ND	ND	ND	5.9
1,2,3-Trimethylbenzene	NA	ND	10.3	ND	ND
Nonanal	NA	ND	ND	5.8	ND
2-Methyl-1,3-Butadiene	NA	ND	ND	3.1	ND
Pentadecane	NA	ND	ND	12	ND
ND = Not Detected					
NA = Not Available					
Shading indicates result exceeds PRG					

Countywide Recycling & Disposal Facility

Monthly Report #2

July 20, 2007

**APPENDIX A**

**Laboratory Analytical Results from June 2/3, 2007**

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 6/27/07  
 Job Number: E07-05602  
 Date Received: 6/5/07  
 Date Analyzed: 6/25/07  
 Data File: 062502  
 Summa ID: 3014A

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-C0602</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-05602-01</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		23	54	0.50	1.2
Benzene	71-43-2		0.73	2.3	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		1.7	5.2	0.50	1.5
Carbon disulfide	75-15-0		0.59	1.8	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		0.69	1.4	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		2.0	11	0.50	2.6
Cyclohexane	110-82-7		0.52	1.8	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		1.7	11	0.50	3.0
1,3-Dichlorobenzene	541-73-1		1.6	9.6	0.50	3.0
1,4-Dichlorobenzene	106-46-7		1.6	9.6	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		0.51	2.0	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		0.53	2.1	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		0.83	3.6	0.50	2.2
4-Ethyltoluene	622-96-8		2.4	12	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		1.7	19	0.50	5.3
Hexane	110-54-3		0.53	1.9	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		4.1	12	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		0.51	1.8	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		1.2	4.9	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		0.93	3.5	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		0.61	4.7	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		0.81	4.4	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		4.3	21	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		3.4	17	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		4.7	20	0.50	2.2
o-Xylene	95-47-6		2.2	9.6	0.50	2.2

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 6/27/07  
 Job Number: E07-05602  
 Date Received: 6/5/07  
 Date Analyzed: 6/25/07  
 Data File: 062503  
 Summa ID: 3045

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-S0602</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-05602-02</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		13	31	0.50	1.2
Benzene	71-43-2		0.62	2.0	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		0.70	2.1	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		1.2	2.4	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		0.56	2.8	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		3.2	14	0.50	2.2
4-Ethyltoluene	622-96-8		1.4	6.9	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		0.52	1.8	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		1.4	4.0	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		0.71	2.7	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		0.53	2.9	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		1.7	8.3	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		0.65	3.2	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		16	70	0.50	2.2
o-Xylene	95-47-6		5.3	23	0.50	2.2

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 6/27/07  
 Job Number: E07-05602  
 Date Received: 6/5/07  
 Date Analyzed: 6/25/07  
 Data File: 062504  
 Summa ID: 2755

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-G0602</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-05602-03</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		27	64	0.50	1.2
Benzene	71-43-2		ND	ND	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		0.56	2.2	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		1.1	2.3	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		2.0	6.0	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		ND	ND	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		1.5	6.3	0.50	2.2
o-Xylene	95-47-6		ND	ND	0.50	2.2

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 6/27/07  
 Job Number: E07-05602  
 Date Received: 6/5/07  
 Date Analyzed: 6/25/07  
 Data File: 062505  
 Summa ID: 3007

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-W0602</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-05602-04</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		10	25	0.50	1.2
Benzene	71-43-2		ND	ND	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		1.2	2.5	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		2.0	5.9	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		ND	ND	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		1.4	5.9	0.50	2.2
o-Xylene	95-47-6		ND	ND	0.50	2.2

## *Certificate of Analysis*

### **CLIENT INFORMATION**

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

Project#: 07-0082

### **LABORATORY INFORMATION**

Contact: Michael H. Leftin, Ph.D.  
IAL Job No.: E07-05602  
Date Received: 06/05/07

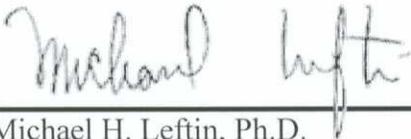
Sample#:  
E07-05602-01, E07-05602-02, E07-  
05602-03, E07-05602-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.

Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ  
ELAP lab number - 11402  
NJDEP number - 14751  
AIHA number - 100201



---

Michael H. Leftin, Ph.D.  
Laboratory Director

## Summary of Results

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 6/27/2007  
 Job Number: E07-05602  
 Date Received: 6/5/2007  
 Date Analyzed: 6/25/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-G0602  
 IAL ID: E07-05602-03

Data File: 062504  
 Canister ID: 2755

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m <sup>3</sup>	Reporting Limit µg/m <sup>3</sup>	in µg/m <sup>3</sup>		in ppb		Molecular Weight
Octodrine	543-82-8	4	11.8	623	1.0	0.98	0.5445668	0	129	
Acetaldehyde	75-07-0	78	9.9	18	0.48				44	
Butane	106-97-8	72	6.6	16	1.0			0	58	
Ethanol	64-17-5	78	1.4	2.6	2.1			0	46	
Acetonitrile	75-05-8	41	2.1	3.5	2.1			0	41	
1,3-Butadiene, 2-methyl-	78-79-5	91	1.6	4.4	0.78	0.90	0.323603	0	68	
(Aminomethyl)cyclopropane	2516-47-4	50	1.1	3.2	0.78	0.90	0.30993	0	71	
Hexanal	66-25-1	74	1.3	5.3	0.61			0	100	
Nonanal	124-19-6	91	1.3	7.6	0.44			0	142	

Sample Name: SU-W0602  
 IAL ID: E07-05602-04

Data File: 062505  
 Canister ID: 3007

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m <sup>3</sup>	Reporting Limit µg/m <sup>3</sup>	in µg/m <sup>3</sup>		in ppb		Molecular Weight
Cyclopropanecarboxamide	6228-73-5	78	3.1	11	0.48	0.98	0.281894	0	85	
Acetaldehyde	75-07-0	78	8.7	15.7	0.48	0.98	0.5445668	0	44	
Butane	106-97-8	59	5.8	14	1.0			0	58	
Ethanol	64-17-5	9	1.9	3.6	2.1			0	46	
Acetonitrile	75-05-8	42	2.5	4.2	1.3			0	41	
Pentane	109-66-0	72	1.0	2.9	2.1			0	72	
1,3-Butadiene, 2-methyl-	78-79-5	91	3.1	8.6	0.78	0.90	0.323603	0	68	
(Aminomethyl)cyclopropane	2516-47-4	50	1.3	3.8	0.78	0.90	0.30993	0	71	
1-Butanol	71-36-3	90	1.2	3.6	0.44			0	74	

The following compounds were not detected as tentatively identified compounds:  
 Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Isopropyl Mercaptan, t-Butyl Mercaptan,  
 n-Propyl Mercaptan, Thiophene, Isobutyl Mercaptan, 3-Methyl Thiophene, n-Butyl Mercaptan, Ethyl Methyl Sulfide,  
 Diethyl Sulfide, Dimethyl Disulfide, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, Diethyl Disulfide.  
 Please note that the thermal desorption behaviors of these compounds have not been ascertained.

## Summary of Results

Lawton and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 6/27/2007  
 Job Number: E07-05602  
 Date Received: 6/5/2007  
 Date Analyzed: 6/25/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-C0602  
 IAL ID: E07-05602-01

Data File: 062502  
 Canister ID: 3014A

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	Reporting Limit µg/m3	in µg/m3	in ppb	Molecular Weight
Acetaldehyde	75-07-0	78	16	29	0.48	0.98	0.544568	44
Butane	106-97-8	72	5.1	12	1.0		0	58
Ethanol	64-17-5	86	3.5	6.6	2.1		0	46
Acetonitrile	75-05-8	42	33	56	2.1		0	41
Isopropyl Alcohol	67-63-0	78	5.9	14	2.1		0	60
Pentane	109-66-0	86	6.5	19	2.1		0	72
2-Propenal, 2-methyl-	78-85-3	91	1.3	3.7	2.1		0	70
(Aminomethyl)cyclopropane	2516-47-4	42	4.1	12	0.78	0.90	0.30993	71
Furan, tetrahydro-	109-99-9	90	2.5	7.4	0.44		0	72
1-Butanol	71-36-3	91	2.7	8.2	0.44		0	74

Sample Name: SU-S0602  
 IAL ID: E07-05602-02

Data File: 062503  
 Canister ID: 3045

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	Reporting Limit µg/m3	in µg/m3	in ppb	Molecular Weight
Chlorodifluoroacetamide	354-28-9	5	94	496	0.48	0.98	0.185744	129
Acetaldehyde	75-07-0	64	5.2	9.4	0.48	0.98	0.544568	44
Isobutane	75-28-5	47	6.4	15	0.64	0.32	0.134897	58
1-Propyne	74-99-7	5	167	273	0.88		0	40

The following compounds were not detected as tentatively identified compounds:  
 Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Isopropyl Mercaptan, t-Butyl Mercaptan,  
 n-Propyl Mercaptan, Thiophene, Isobutyl Mercaptan, 3-Methyl Thiophene, n-Butyl Mercaptan, Ethyl Methyl Sulfide,  
 Diethyl Sulfide, Dimethyl Disulfide, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, Diethyl Disulfide.  
 Please note that the thermal desorption behaviors of these compounds have not been ascertained.

### Summary of Results

Lawhon & Associates, Inc.  
 975 Eastwind Drive Suite 190  
 Westerville, OH 43081  
 Att: Shawn Ansbro  
 Jobsite: Countywide  
 Project: #07-0082

Report Date: 6/14/07  
 Job Number: E07-05602Rev.  
 Date Received: 6/5/07  
 Date Analyzed: 6/12/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C0602-01A		C0602-02A		C0602-03A		Reporting Limits
IAL ID:	E07-05602-05		E07-05602-06		E07-05602-07		
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.27	0.59	0.34	0.78	< 0.1	< 0.3	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.4	< 0.6	< 1.6	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1

Sample Name:	S0602-01A		S0602-02A		S0602-03A		Reporting Limits
IAL ID:	E07-05602-08		E07-05602-09		E07-05602-10		
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.16	0.35	< 0.1	< 0.2	0.30	0.82	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acetone	0.28	0.62	0.30	0.69	< 0.1	< 0.3	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.4	< 0.6	< 1.6	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1

Lawhon & Associates, Inc.  
 Jobsite: Countywide  
 Project: #07-0082

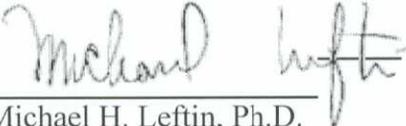
Job Number: E07-06569

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	G0602-01A		G0602-02A		G0602-03A		Reporting
IAL ID:	E07-05602-11		E07-05602-12		E07-05602-13		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	< 0.1	< 0.2	0.26	0.60	0.70	1.9	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.4	< 0.6	< 1.6	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1

Sample Name:	W0602-01A		W0602-02A		W0602-03A		Reporting
IAL ID:	E07-05602-14		E07-05602-15		E07-05602-16		Limits
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.18	0.40	< 0.1	< 0.2	0.29	0.79	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.4	< 0.6	< 1.6	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.5	< 0.2	< 0.5	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.3	0.1

Notes: Calculations of concentrations in air are based upon air sampling data reported by client.  
 Analytical results relate only to the samples as received at the laboratory.

  
 Michael H. Leftin, Ph.D.  
 Laboratory Director

Analyst: D. Mitchell

### Summary of Results

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

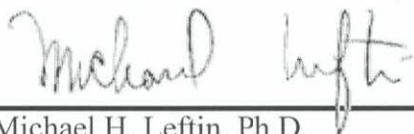
Report Date: 6/11/07  
 Job Number: E07-05602Rev.  
 Date Received: 6/5/07  
 Date Analyzed: 6/11/07

Project: Countywide  
 Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

<u>Sample ID</u>	<u>IAL ID</u>	<u>Hydrogen Fluoride</u>		<u>Hydrogen Chloride</u>	
		<u>ug</u>	<u>ug/m3</u>	<u>ug</u>	<u>ug/m3</u>
C0602-01H	E07-05602-17	< 0.6	< 1.4	< 0.4	< 0.9
C0602-02H	E07-05602-18	< 0.6	< 1.4	< 0.4	< 0.9
C0602-03H	E07-05602-19	< 0.6	< 1.7	0.57	1.6
S0602-01H	E07-05602-20	< 0.6	< 1.3	< 0.4	< 0.8
S0602-02H	E07-05602-21	< 0.6	< 1.3	< 0.4	< 0.8
S0602-03H	E07-05602-22	2.0	4.6	1.9	4.2
G0602-01H	E07-05602-23	< 0.6	< 1.5	< 0.4	< 0.9
G0602-02H	E07-05602-24	< 0.6	< 1.3	3.9	8.1
G0602-03H	E07-05602-25	< 0.6	< 1.4	4.1	9.2
W0602-01H	E07-05602-26	0.74	1.7	< 0.4	< 0.9
W0602-02H	E07-05602-27	< 0.6	< 1.5	< 0.4	< 0.9
W0602-03H	E07-05602-28	< 0.6	< 1.4	9.3	21
Reporting Limit		0.6		0.4	

Note: Calculations of concentrations in air are based upon air sampling data reported by client.  
 Analytical results relate only to the samples as received at the laboratory.



Michael H. Leftin, Ph.D.  
 Laboratory Director

Analyst: D. Mitchell

Spl #	ug/mL FI front	ug/ml Cl front	mls		Volume		HF multiplier	HCl multiplier
			desorbed	dil, front	dil, back	spld (l)		
17	0.082	0.075	5	1	1	454	1.05	1.03
18	0.05	0.075	5	1	1	436	1.05	1.03
19	0.05	0.11	5	1	1	365	1.05	1.03
20	0.05	0.075	5	1	1	475	1.05	1.03
21	0.05	0.075	5.3	1	1	482	1.05	1.03
22	0.39	0.36	5	1	1	442	1.05	1.03
23	0.05	0.075	5	1	1	414	1.05	1.03
24	0.05	0.75	5.1	1	1	487	1.05	1.03
25	0.092	0.80	5	1	1	447	1.05	1.03
26*	0.14	0.075	5	1	1	432	1.05	1.03
27	0.05	0.075	5.2	1	1	427	1.05	1.03
28	0.05	1.8	5	1	1	446	1.05	1.03

Countywide Recycling & Disposal Facility

Monthly Report #2

July 20, 2007

**APPENDIX B**

**Laboratory Analytical Results from June 8/9, 2007**

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/3/07  
 Job Number: E07-05916  
 Date Received: 6/12/07  
 Date Analyzed: 6/26/07  
 Data File: 062510  
 Summa ID: 3293

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>Sample Name:</u>	<u>SU-C0608</u>		<u>Reporting Limits</u>	
	<u>IAL ID:</u>	<u>E07-05916-01</u>		<u>ppbv</u>	<u>ug/m3</u>
	<u>CAS #</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1	14	33	0.50	1.2
Benzene	71-43-2	ND	ND	0.50	1.6
Bromodichloromethane	75-27-4	ND	ND	0.50	3.4
Bromoethene	593-60-2	ND	ND	0.50	2.2
Bromoform	75-25-2	ND	ND	0.50	5.2
Bromomethane	74-83-9	0.95	3.7	0.50	1.9
1,3-Butadiene	106-99-0	ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0	ND	ND	0.50	1.5
Carbon disulfide	75-15-0	1.3	4.0	0.50	1.6
Carbon tetrachloride	56-23-5	ND	ND	0.50	3.2
Chlorobenzene	108-90-7	ND	ND	0.50	2.3
Chloroethane	75-00-3	ND	ND	0.50	1.3
Chloroform	67-66-3	ND	ND	0.50	2.4
Chloromethane	74-87-3	1.2	2.4	0.50	1.0
3-Chloropropene	107-05-1	ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8	ND	ND	0.50	2.6
Cyclohexane	110-82-7	ND	ND	0.50	1.7
Dibromochloromethane	124-48-1	ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4	ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1	ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1	ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7	ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8	ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3	ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2	ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4	ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2	ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5	ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5	ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5	ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6	ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2	ND	ND	0.50	3.5
Ethylbenzene	100-41-4	ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8	ND	ND	0.50	2.5
Heptane	142-82-5	ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3	ND	ND	0.50	5.3
Hexane	110-54-3	ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0	ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3	2.3	6.8	0.50	1.5
Methyl isobutyl ketone	108-10-1	ND	ND	0.50	2.1
Methylene chloride	75-09-2	ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4	ND	ND	0.50	1.8
Styrene	100-42-5	ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5	ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4	ND	ND	0.50	3.4
Toluene	108-88-3	ND	ND	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1	ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6	ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5	ND	ND	0.50	2.7
Trichloroethylene	79-01-6	ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4	ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6	ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8	ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1	ND	ND	0.50	2.3
Vinyl chloride	75-01-4	ND	ND	0.50	1.3
m or p-Xylene	1330-20-7	ND	ND	0.50	2.2
o-Xylene	95-47-6	ND	ND	0.50	2.2

D = Extra dilution required for this compound

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/3/07  
 Job Number: E07-05916  
 Date Received: 6/12/07  
 Date Analyzed: 6/28/07  
 Data File: 062806, 062805  
 Summa ID: 2095

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>Sample Name:</u>		<u>SU-S0608</u>		<u>Reporting Limits</u>	
	<u>IAL ID:</u>		<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1	D	288	684	0.50	1.2
Benzene	71-43-2		ND	ND	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		0.71	2.8	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		ND	ND	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		2.6	7.7	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		0.51	1.9	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		ND	ND	0.50	2.2
o-Xylene	95-47-6		ND	ND	0.50	2.2

D = Extra dilution required for this compound

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/3/07  
 Job Number: E07-05916  
 Date Received: 6/12/07  
 Date Analyzed: 6/28/07  
 Data File: 062807  
 Summa ID: 3045A

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-G0608</u>		<u>Reporting Limits</u>			
		<u>IAL ID:</u>	<u>E07-05916-03</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1			8.4	20	0.50	1.2
Benzene	71-43-2			ND	ND	0.50	1.6
Bromodichloromethane	75-27-4			ND	ND	0.50	3.4
Bromoethene	593-60-2			ND	ND	0.50	2.2
Bromoform	75-25-2			ND	ND	0.50	5.2
Bromomethane	74-83-9			ND	ND	0.50	1.9
1,3-Butadiene	106-99-0			ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0			ND	ND	0.50	1.5
Carbon disulfide	75-15-0			ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5			ND	ND	0.50	3.2
Chlorobenzene	108-90-7			ND	ND	0.50	2.3
Chloroethane	75-00-3			ND	ND	0.50	1.3
Chloroform	67-66-3			ND	ND	0.50	2.4
Chloromethane	74-87-3			0.64	1.3	0.50	1.0
3-Chloropropene	107-05-1			ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8			ND	ND	0.50	2.6
Cyclohexane	110-82-7			ND	ND	0.50	1.7
Dibromochloromethane	124-48-1			ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4			ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1			ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1			ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7			ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8			ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3			ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2			ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4			ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2			ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5			ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5			ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5			ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6			ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2			ND	ND	0.50	3.5
Ethylbenzene	100-41-4			0.54	2.4	0.50	2.2
4-Ethyltoluene	622-96-8			ND	ND	0.50	2.5
Heptane	142-82-5			ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3			ND	ND	0.50	5.3
Hexane	110-54-3			ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0			ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3			1.3	3.7	0.50	1.5
Methyl isobutyl ketone	108-10-1			ND	ND	0.50	2.1
Methylene chloride	75-09-2			ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4			ND	ND	0.50	1.8
Styrene	100-42-5			ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5			ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4			ND	ND	0.50	3.4
Toluene	108-88-3			1.1	4.0	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1			ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1			ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6			ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5			ND	ND	0.50	2.7
Trichloroethylene	79-01-6			ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4			ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6			ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8			ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1			ND	ND	0.50	2.3
Vinyl chloride	75-01-4			ND	ND	0.50	1.3
m or p-Xylene	1330-20-7			2.2	9.6	0.50	2.2
o-Xylene	95-47-6			0.71	3.1	0.50	2.2

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/3/07  
 Job Number: E07-05916  
 Date Received: 6/12/07  
 Date Analyzed: 6/28/07  
 Data File: 062808  
 Summa ID: 2753

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-W0608</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-05916-04</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		6.4	15	0.50	1.2
Benzene	71-43-2		ND	ND	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		0.82	1.7	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		0.57	1.7	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		ND	ND	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		ND	ND	0.50	2.2
o-Xylene	95-47-6		ND	ND	0.50	2.2

## *Certificate of Analysis*

### **CLIENT INFORMATION**

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

Project#: 07-0082

### **LABORATORY INFORMATION**

Contact: Michael H. Leftin, Ph.D.  
IAL Job No.: E07-05916  
Date Received: 06/12/07

Sample#:  
E07-05916-01, E07-05916-02, E07-  
05916-03, E07-05916-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.

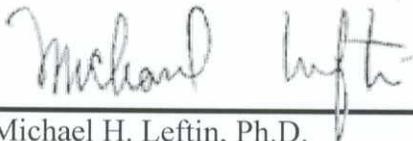
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ

ELAP lab number - 11402

NJDEP number - 14751

AIHA number - 100201



---

Michael H. Leftin, Ph.D.

Laboratory Director

## Summary of Results

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 6/29/2007  
 Job Number: E07-05916  
 Date Received: 6/12/2007  
 Date Analyzed: 6/28/2007

### Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-C0608  
 IAL ID: E07-05916-01

Data File: 062510  
 Canister ID 3293

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
3-Butenoic acid	625-38-7		78	4.4	15
Acetaldehyde	75-07-0		78	17	31
Butane	106-97-8		64	7.8	19
Ethanol	64-17-5		56	2.4	4.5
Acetonitrile	75-05-8		42	19	32
Pentane	109-66-0		86	2.5	7.4
(Aminomethyl)cyclopropane	2516-47-4		43	1.6	5
1-Butanol	71-36-3		91	1.6	4.8

Sample Name: SU-S0608  
 IAL ID: E07-05916-02

Data File: 062806  
 Canister ID 2095

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
Acetaldehyde	75-07-0		78	6.9	12
Butane	106-97-8		42	6.5	15
Acetonitrile	75-05-8		42	44	74
(Aminomethyl)cyclopropane	2516-47-4		53	1.4	4.1
1R-.alpha. - Pinene	7785-70-8		74	1.2	67

The following compounds were not detected as tentatively identified compounds:

Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Isopropyl Mercaptan, t-Butyl Mercaptan, n-Propyl Mercaptan, Thiophene, Isobutyl Mercaptan, 3-Methyl Thiophene, n-Butyl Mercaptan, Ethyl Methyl Sulfid, Diethyl Sulfide, Dimethyl Disulfide, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, Diethyl Disulfid  
 Please note that the thermal desorption behaviors of these compounds have not been ascertained.

### Summary of Results

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 6/29/2007  
 Job Number: E07-05916  
 Date Received: 6/12/2007  
 Date Analyzed: 6/28/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-G0608  
 IAL ID: E07-05916-03

Data File: 062807  
 Canister ID 3045A

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
Acetaldehyde	75-07-0		78	6.1	11
Butane	106-97-8		50	5.1	12
Ethanol	64-17-5		86	1.2	2.3
Acetonitrile	75-05-8		40	6.0	10
Isopropyl Alcohol	67-63-0		78	2.4	6.7

Sample Name: SU-W0608  
 IAL ID: E07-05916-04

Data File: 062808  
 Canister ID 2753

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
Acetaldehyde	75-07-0		9	3.6	6.5
Butane	106-97-8		59	3.5	8.3

The following compounds were not detected as tentatively identified compounds:

Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Isopropyl Mercaptan, t-Butyl Mercaptan, n-Propyl Mercaptan, Thiophene, Isobutyl Mercaptan, 3-Methyl Thiophene, n-Butyl Mercaptan, Ethyl Methyl Sulfid, Diethyl Sulfide, Dimethyl Disulfide, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, Diethyl Disulfi  
 Please note that the thermal desorption behaviors of these compounds have not been ascertained.

Summary of Results

Lawhon & Associates, Inc.  
 975 Eastwind Drive Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Jobsite: Countywide  
 Project: #07-0082

Report Date: 6/21/07  
 Job Number: E07-05916  
 Date Received: 6/13/07  
 Date Analyzed: 6/21/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C0608-01A	C0608-02A	C0608-03A	Reporting Limits
IAL ID:	E07-05916-05	E07-05916-06	E07-05916-07	
Compound	ug	ug	ug	ug
Formaldehyde	0.36	< 0.1	< 0.1	< 0.2
Acetaldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Acetone	< 0.1	< 0.1	< 0.1	< 0.2
Acrolein	< 0.1	< 0.1	< 0.1	< 0.2
Propionaldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Crotonaldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Butyraldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Benzaldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Isovaleraldehyde	< 0.6	< 0.6	< 0.6	0.6
Valeraldehyde	< 0.2	< 0.2	< 0.2	0.2
o-Tolualdehyde	< 0.2	< 0.2	< 0.2	0.2
m- and p-Tolualdehyde	< 0.1	< 0.1	< 0.1	0.1
Hexaldehyde	< 0.1	< 0.1	< 0.1	0.1

Sample Name:	S0608-01A	S0608-02A	S0608-03A	Reporting Limits
IAL ID:	E07-05916-08	E07-05916-09	E07-05916-10	
Compound	ug	ug	ug	ug
Formaldehyde	< 0.1	< 0.1	< 0.1	< 0.2
Acetaldehyde	< 0.1	< 0.1	< 0.1	< 0.2

Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1
Isovaleraldehyde	< 0.6	< 1.4	< 0.6	< 1.1	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.5	< 0.2	< 0.4	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.5	< 0.2	< 0.4	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Page 1 of 2

Lawhon & Associates, Inc.  
 Jobsite: Countywide  
 Project: #07-0082

Job Number: E07-05916

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	G0608-01A	G0608-02A	G0608-03A	Reporting Limits		
IAL ID:	E07-05916-11	E07-05916-12	E07-05916-13	ug		
Compound	ug	ug/m3	ug	ug		
Formaldehyde	< 0.1	< 0.2	0.32	0.12	0.26	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.4	< 0.6	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.5	< 0.2	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.5	< 0.2	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.1	< 0.2	0.1

Compound	W0608-01A E07-05916-14 ug	W0608-02A E07-05916-15 ug	W0608-03A E07-05916-16 ug	Reporting Limits ug
Hexaldehyde	< 0.1	< 0.1	< 0.1	0.1
Sample Name:	W0608-01A	W0608-02A	W0608-03A	
LAL ID:	E07-05916-14	E07-05916-15	E07-05916-16	
Compound	ug	ug/m3	ug/m3	ug
Formaldehyde	0.30	0.69	0.25	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.2	0.1
Acetone	< 0.1	0.74	1.3	0.1
Acrolein	< 0.1	< 0.2	< 0.2	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.2	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.4	< 1.1	0.1
Valeraldehyde	< 0.2	< 0.5	< 0.6	0.6
o-Tolualdehyde	< 0.2	< 0.5	< 0.2	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.2	0.2
Hexaldehyde	< 0.1	< 0.2	< 0.2	0.1
			1.7	0.1
			0.80	0.1
			< 0.1	0.1
			< 0.1	0.1
			< 0.1	0.1
			< 0.1	0.1
			< 0.6	0.6
			< 0.2	0.2
			< 0.2	0.2
			< 0.1	0.1
			< 0.2	0.2
			< 0.4	0.2
			< 0.4	0.2
			< 0.2	0.1
			< 0.1	0.1
			< 0.2	0.1
			< 0.2	0.1

Jane E. Dennison, Ph.D., CIH  
Laboratory Manager, Air

Analyst: J. Dennison

Summary of Results

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

Report Date: 06/21/07  
 Job Number: E07-05916  
 Date Received: 06/13/07  
 Date Analyzed: 06/19/07

Project: Countywide  
 Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

Sample ID	IAL ID	Hydrogen Fluoride		Hydrogen Chloride	
		ug	ug/m3	ug	ug/m3
C0608-01H	E07-05916-17	0.90	2.1	< 0.4	< 0.9
C0608-02H*	E07-05916-18	1.8	3.9	2.5	5.5
C0608-03H	E07-05916-19	< 0.6	< 1.3	< 0.4	< 0.8
S0608-01H	E07-05916-20	< 0.6	< 1.4	1.0	2.3
S0608-02H	E07-05916-21	< 0.6	< 1.4	0.80	1.8
S0608-03H	E07-05916-22	< 0.6	< 1.3	< 0.4	< 0.8
G0608-01H	E07-05916-23	< 0.6	< 1.4	< 0.4	< 0.9
G0608-02H**	E07-05916-24	< 0.6	< 1.4	5.0	11
G0608-03H**	E07-05916-25	< 0.6	< 1.3	82.0	175
W0608-01H	E07-05916-26	< 0.6	< 1.4	< 0.4	< 0.9
W0608-02H	E07-05916-27	< 0.6	< 1.4	< 0.4	< 0.8
W0608-03H	E07-05916-28	< 0.6	< 1.3	< 0.4	< 0.8
Reporting Limit		0.6		0.4	

\* Greater than 10% in back section indicates possible breakthrough. Sample was very wet.  
 \*\* Chloride was found on tube back but not detected on tube front.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.  
 Analytical results relate only to the samples as received at the laboratory.

Jane E. Dennison, Ph.D., CIH  
 Laboratory Manager, Air

Analyst: D. .

Countywide Recycling & Disposal Facility

Monthly Report #2

July 20, 2007

**APPENDIX C**

**Laboratory Analytical Results from June 14/15, 2007**

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/11/07  
 Job Number: E07-06177  
 Date Received: 6/19/07  
 Date Analyzed: 7/9/07  
 Data File: 070904  
 Summa ID: 3286

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<b>Compound</b>	<b>CAS #</b>	<b>Sample Name: SU-S0614</b>		<b>Reporting Limits</b>		
		<b>IAL ID: E07-06177-01</b>	<b>ppbv</b>	<b>ug/m3</b>	<b>ppbv</b>	<b>ug/m3</b>
Acetone	67-64-1		ND	ND	0.50	1.2
Benzene	71-43-2		0.58	1.9	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		1.0	2.1	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		0.69	2.4	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		1.5	4.5	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		1.4	5.2	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		0.59	2.6	0.50	2.2
o-Xylene	95-47-6		ND	ND	0.50	2.2

D = Extra dilution required for this compound

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/11/07  
 Job Number: E07-06177  
 Date Received: 6/19/07  
 Date Analyzed: 7/6/07  
 Data File: 070607  
 Summa ID: 3044A

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-G0614</u>		<u>Reporting Limits</u>			
		<u>IAL ID:</u>	<u>E07-06177-02</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1			ND	ND	0.50	1.2
Benzene	71-43-2			ND	ND	0.50	1.6
Bromodichloromethane	75-27-4			ND	ND	0.50	3.4
Bromoethene	593-60-2			ND	ND	0.50	2.2
Bromoform	75-25-2			ND	ND	0.50	5.2
Bromomethane	74-83-9			ND	ND	0.50	1.9
1,3-Butadiene	106-99-0			ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0			ND	ND	0.50	1.5
Carbon disulfide	75-15-0			ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5			ND	ND	0.50	3.2
Chlorobenzene	108-90-7			ND	ND	0.50	2.3
Chloroethane	75-00-3			ND	ND	0.50	1.3
Chloroform	67-66-3			ND	ND	0.50	2.4
Chloromethane	74-87-3			0.68	1.4	0.50	1.0
3-Chloropropene	107-05-1			ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8			ND	ND	0.50	2.6
Cyclohexane	110-82-7			ND	ND	0.50	1.7
Dibromochloromethane	124-48-1			ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4			ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1			ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1			ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7			ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8			ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3			ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2			ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4			ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2			ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5			ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5			ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5			ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6			ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2			ND	ND	0.50	3.5
Ethylbenzene	100-41-4			ND	ND	0.50	2.2
4-Ethyltoluene	622-96-8			ND	ND	0.50	2.5
Heptane	142-82-5			ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3			ND	ND	0.50	5.3
Hexane	110-54-3			ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0			ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3			1.3	3.7	0.50	1.5
Methyl isobutyl ketone	108-10-1			ND	ND	0.50	2.1
Methylene chloride	75-09-2			ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4			ND	ND	0.50	1.8
Styrene	100-42-5			ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5			ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4			ND	ND	0.50	3.4
Toluene	108-88-3			6.0	23	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1			ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1			ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6			ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5			ND	ND	0.50	2.7
Trichloroethylene	79-01-6			ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4			ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6			ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8			ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1			ND	ND	0.50	2.3
Vinyl chloride	75-01-4			ND	ND	0.50	1.3
m or p-Xylene	1330-20-7			ND	ND	0.50	2.2
o-Xylene	95-47-6			ND	ND	0.50	2.2

D = Extra dilution required for this compound

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/11/07  
 Job Number: E07-06177  
 Date Received: 6/19/07  
 Date Analyzed: 7/6/07  
 Data File: 070608  
 Summa ID: 3003

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-W0614</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-06177-03</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		ND	ND	0.50	1.2
Benzene	71-43-2		ND	ND	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		0.66	1.4	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		3.5	15	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		ND	ND	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		ND	ND	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		0.71	2.7	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		2.0	9.9	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		0.75	3.7	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		16	70	0.50	2.2
o-Xylene	95-47-6		6.3	27	0.50	2.2

D = Extra dilution required for this compound

**Integrated Analytical Laboratories LLC**

**Summary of Results**

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082  
 Site: Countywide

Report Date: 7/11/07  
 Job Number: E07-06177  
 Date Received: 6/19/07  
 Date Analyzed: 7/6/07  
 Data File: 070609  
 Summa ID: 2157

Analysis: Volatile Organic Compounds by EPA Method TO-15m

<u>Compound</u>	<u>CAS #</u>	<u>Sample Name: SU-C0614</u>		<u>Reporting Limits</u>		
		<u>IAL ID: E07-06177-04</u>	<u>ppbv</u>	<u>ug/m3</u>	<u>ppbv</u>	<u>ug/m3</u>
Acetone	67-64-1		ND	ND	0.50	1.2
Benzene	71-43-2		0.55	1.8	0.50	1.6
Bromodichloromethane	75-27-4		ND	ND	0.50	3.4
Bromoethene	593-60-2		ND	ND	0.50	2.2
Bromoform	75-25-2		ND	ND	0.50	5.2
Bromomethane	74-83-9		ND	ND	0.50	1.9
1,3-Butadiene	106-99-0		ND	ND	0.50	1.1
tert-Butyl alcohol	75-65-0		ND	ND	0.50	1.5
Carbon disulfide	75-15-0		ND	ND	0.50	1.6
Carbon tetrachloride	56-23-5		ND	ND	0.50	3.2
Chlorobenzene	108-90-7		ND	ND	0.50	2.3
Chloroethane	75-00-3		ND	ND	0.50	1.3
Chloroform	67-66-3		ND	ND	0.50	2.4
Chloromethane	74-87-3		0.81	1.7	0.50	1.0
3-Chloropropene	107-05-1		ND	ND	0.50	1.6
2-Chlorotoluene	95-49-8		ND	ND	0.50	2.6
Cyclohexane	110-82-7		ND	ND	0.50	1.7
Dibromochloromethane	124-48-1		ND	ND	0.50	4.3
1,2-Dibromoethane	106-93-4		ND	ND	0.50	3.8
1,2-Dichlorobenzene	95-50-1		ND	ND	0.50	3.0
1,3-Dichlorobenzene	541-73-1		ND	ND	0.50	3.0
1,4-Dichlorobenzene	106-46-7		ND	ND	0.50	3.0
Dichlorodifluoromethane	75-71-8		ND	ND	0.50	2.5
1,1-Dichloroethane	75-34-3		ND	ND	0.50	2.0
1,2-Dichloroethane	107-06-2		ND	ND	0.50	2.0
1,1-Dichloroethylene	75-35-4		ND	ND	0.50	2.0
cis-1,2-Dichloroethylene	156-59-2		ND	ND	0.50	2.0
trans-1,2-Dichloroethylene	156-60-5		ND	ND	0.50	2.0
1,2-Dichloropropane	78-87-5		ND	ND	0.50	2.3
cis-1,3-Dichloropropene	10061-01-5		ND	ND	0.50	2.3
trans-1,3-Dichloropropene	10061-02-6		ND	ND	0.50	2.3
Dichlorotetrafluoroethane	76-14-2		ND	ND	0.50	3.5
Ethylbenzene	100-41-4		1.5	6.6	0.50	2.2
4-Ethyltoluene	622-96-8		ND	ND	0.50	2.5
Heptane	142-82-5		ND	ND	0.50	2.1
Hexachlorobutadiene	87-68-3		ND	ND	0.50	5.3
Hexane	110-54-3		1.0	3.6	0.50	1.8
Isopropyl alcohol	67-63-0		ND	ND	0.50	1.2
Methyl ethyl ketone	78-93-3		0.91	2.7	0.50	1.5
Methyl isobutyl ketone	108-10-1		ND	ND	0.50	2.1
Methylene chloride	75-09-2		ND	ND	0.50	1.7
Methyl-t-butyl ether	1634-04-4		ND	ND	0.50	1.8
Styrene	100-42-5		ND	ND	0.50	2.1
1,1,2,2-Tetrachloroethane	79-34-5		ND	ND	0.50	3.4
Tetrachloroethylene	127-18-4		ND	ND	0.50	3.4
Toluene	108-88-3		1.9	7.3	0.50	1.9
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		ND	ND	0.50	3.8
1,2,4-Trichlorobenzene	120-82-1		ND	ND	0.50	3.7
1,1,1-Trichloroethane	71-55-6		ND	ND	0.50	2.7
1,1,2-Trichloroethane	79-00-5		ND	ND	0.50	2.7
Trichloroethylene	79-01-6		ND	ND	0.50	2.7
Trichlorofluoromethane	75-69-4		ND	ND	0.50	2.8
1,2,4-Trimethylbenzene	95-63-6		ND	ND	0.50	2.5
1,3,5-Trimethylbenzene	108-67-8		ND	ND	0.50	2.5
2,2,4-Trimethylpentane	540-84-1		ND	ND	0.50	2.3
Vinyl chloride	75-01-4		ND	ND	0.50	1.3
m or p-Xylene	1330-20-7		5.1	22	0.50	2.2
o-Xylene	95-47-6		1.8	7.8	0.50	2.2

D = Extra dilution required for this compound

## *Certificate of Analysis*

### **CLIENT INFORMATION**

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

Project#: 07-0082

### **LABORATORY INFORMATION**

Contact: Michael H. Leftin, Ph.D.  
IAL Job No.: E07-06177  
Date Received: 06/19/07

Sample#:  
E07-06177-01, E07-06177-02, E07-  
06177-03, E07-06177-04

Samples for this analysis were received in good condition with a chain of custody.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing.

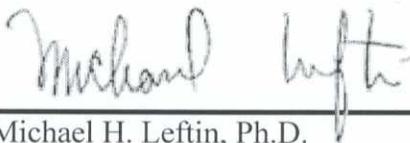
Once analysis has been performed on canisters that meets regulatory criteria, samples are recycled for future use, unless other provisions have been made by the client.

Analysis conducted at Integrated Analytical Laboratory, Randolph NJ

ELAP lab number - 11402

NJDEP number - 14751

AIHA number - 100201



---

Michael H. Leftin, Ph.D.

Laboratory Director

01 &amp; 02

## Summary of Results

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 7/13/2007  
 Job Number: E07-06177  
 Date Received: 6/19/2007  
 Date Analyzed: 7/6/2007

## Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-S0614  
 IAL ID: E07-06177-01

Data File: 070904  
 Canister ID 3286

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
Acetaldehyde	75-07-0		9	2.1	3.9
Butane	106-97-8		9	2.4	5.7
Acetonitrile	75-05-8		42	3.8	6.4
Butane, 2-methyl-	78-78-4		47	8.2	24
Pentane	109-66-0		90	1.6	4.7
Cyclopentene	142-29-0		78	1.7	4.7
Pentane, 2-methyl-	107-83-5		90	1.4	4.9

Sample Name: SU-G0614  
 IAL ID: E07-06177-02

Data File: 070607  
 Canister ID 3044A

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3	
Acetaldehyde	75-07-0		9	1.9	3.4
Butane	106-97-8		7	1.3	3.1
Acetonitrile	75-05-8		42	3.6	6.0
Butane, 2-methyl-	78-78-4		27	7.0	21
Pentane	109-66-0		78	2.4	7.1
1,3-Butadiene, 2-methyl-	78-79-5		91	1.1	3.1
Pentadecane	629-62-9		46	1.4	12
Nonanal	124-19-6		47	1.0	5.8

### Summary of Results

Lawhon and Associates, Inc.  
 975 Eastwind Drive, Suite 190  
 Westerville, OH 43081  
 Attn: Shawn Ansbro  
 Project: 07-0082, Countrywide

Report Date: 6/29/2007  
 Job Number: E07-05916  
 Date Received: 6/12/2007  
 Date Analyzed: 6/28/2007

Analysis: Tentatively Identified Compounds by Library Search

Sample Name: SU-W0614  
 IAL ID: E07-06177-03

Data File: 070608  
 Canister ID 3003

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3
Benzene, 1-ethyl-2-methyl-	611-14-3		94	1.2 5.9

Sample Name: SU-C0614  
 IAL ID: E07-06177-04

Data File: 070609  
 Canister ID 2157

Chemical Name	CAS Number	Qual %	Estimated in ppb	Estimated in µg/m3
Butane	106-97-8		72	1.7 4.0
Butane, 2-methyl-	78-78-4		58	4.2 12.4
Pentane	109-66-0		90	2.4 7.1
Benzene, 1,2,3--trimethyl-	526-73-8		74	2.1 10.3

### Summary of Results

Lawhon & Associates, Inc.  
 975 Eastwind Drive Suite 190  
 Westerville, OH 43081  
 Att: Shawn Ansbro  
 Jobsite: Countywide  
 Project: #07-0082

Report Date: 7/2/07  
 Job Number: E07-06177  
 Date Received: 6/19/07  
 Date Analyzed: 7/2/07

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	C0614-01A		C0614-02A		C0614-03A		Reporting Limits
IAL ID:	E07-06177-17		E07-06177-18		E07-06177-19		
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.38	0.79	< 0.1	< 0.2	0.13	0.28	0.1
Acetaldehyde	0.24	0.50	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.3	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Sample Name:	S0614-01A		S0614-02A		S0614-03A		Reporting Limits
IAL ID:	E07-06177-20		E07-06177-21		E07-06177-22		
Compound	ug	ug/m3	ug	ug/m3	ug	ug/m3	ug
Formaldehyde	0.56	1.2	0.22	0.48	< 0.1	< 0.2	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.3	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Page 1 of 2

Lawhon & Associates, Inc.

Job Number: E07-06177

Jobsite: Countywide

Project: #07-0082

Analysis: Aldehydes and Ketones, EPA Method TO-11a

Sample Name:	G0614-01A		G0614-02A		G0614-03A		Reporting Limits
IAL ID:	E07-06177-23		E07-06177-24		E07-06177-25		
<u>Compound</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>
Formaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.3	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Sample Name:	W0614-01A		W0614-02A		W0614-03A		Reporting Limits
IAL ID:	E07-06177-26		E07-06177-27		E07-06177-28		
<u>Compound</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>	<u>ug/m3</u>	<u>ug</u>
Formaldehyde	< 0.1	< 0.21	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acetone	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Acrolein	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

Propionaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Crotonaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Butyraldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Benzaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Isovaleraldehyde	< 0.6	< 1.3	< 0.6	< 1.3	< 0.6	< 1.3	0.6
Valeraldehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
o-Tolualdehyde	< 0.2	< 0.4	< 0.2	< 0.4	< 0.2	< 0.4	0.2
m- and p-Tolualdehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1
Hexaldehyde	< 0.1	< 0.2	< 0.1	< 0.2	< 0.1	< 0.2	0.1

---

Jane E. Dennison, Ph.D., CIH  
Laboratory Manager, Air

Analyst: D. Mitchell

Summary of Results

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

Report Date: 07/02/07  
 Job Number: E07-06177  
 Date Received: 06/19/07  
 Date Analyzed: 07/02/07

Project: Countywide  
 Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

Sample ID	IAL ID	Hydrogen Fluoride		Hydrogen Chloride	
		ug	ug/m3	ug	ug/m3
C0614-01H*	E07-06177-05	1.8	3.8	6.8	14
C0614-02H	E07-06177-06	< 0.6	< 1.4	1.0	2.2
C0614-03H	E07-06177-07	< 0.6	< 1.3	< 0.4	< 0.8
S0614-01H	E07-06177-08	< 0.6	< 1.3	< 0.4	< 0.8
S0614-02H	E07-06177-09	< 0.6	< 1.3	< 0.4	< 0.8
S0614-03H	E07-06177-10	< 0.6	< 1.3	0.50	1.1
G0614-01H**	E07-06177-11	< 0.6	< 1.3	1.6	3.4
G0614-02H*	E07-06177-12	< 0.6	< 1.3	4.9	10
G0614-03H	E07-06177-13	< 0.6	< 1.5	< 0.4	< 0.9
W0614-01H*	E07-06177-14	< 0.6	< 1.3	1.7	3.5
W0614-02H**	E07-06177-15	< 0.6	< 1.3	1.0	2.2
W0614-03H	E07-06177-16	< 0.6	< 1.4	1.9	4.0
Reporting Limit		0.6		0.4	

\* Greater than 10% in back section indicates possible breakthrough.

\*\* Chloride was found on tube back but not detected on tube front.

Note: Calculations of concentrations in air are based upon air sampling data reported by client.  
 Analytical results relate only to the samples as received at the laboratory.

Jane E. Dennison, Ph.D., CIH  
 Laboratory Manager, Air

Analyst: D. Mitchell