# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX A

## Laboratory Analytical Results from July 20/21, 2008

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8G220269

Shawn Ansbro

Lawhon and Associates
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TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

July 29, 2008

# ANALYTICAL METHODS SUMMARY

H8G220269

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**H8G220269**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KR0T4 | 001 | SU-S072008 | 07/20/08 | 14:40 |
| KR0T7 | 002 | SU-G072008 | 07/20/08 | 14:40 |
| KR0T8 | 003 | SU-W072008 | 07/20/08 | 14:40 |
| KR0VC | 004 | SU-C072008 | 07/20/08 | 14:40 |
| KR0VD | 005 | SU-TBT072008 | 07/20/08 | 14:40 |
| KR0VE | 006 | UP071708-3 | 07/17/08 | 07:20 |
| KR0VG | 007 | DN071708-3 | 07/17/08 | 07:25 |
| KR0VH | 008 | DN071708-1 | 07/17/08 | 07:20 |
| KR0VJ | 009 | UP071808-4 | 07/18/08 | |
| KR0VK | 010 | DN071808-4 | 07/18/08 | |

**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
## H8G220269

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

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

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

**Sample Receipt**

Custody seals were not present.

The containers for all samples were received without a label.

**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.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 7/24/08 exhibited a %difference of >30% but ≤40% for 1,2,4-trichlorobenzene.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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 and Associates

Client Sample ID: SU-S072008

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G220269 - 001 | Work Order # | KR0T41AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 07/20/2008 | Date Received..: | 07/22/2008 |
| Prep Date.....: | 07/24/2008 | Analysis Date... | 07/24/2008 |
| Prep Batch #.....: | 8207123 | | |
| Dilution Factor.: | 4 | 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 | 0.80 | ND | | 3.6 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.80 | ND | | 5.6 |
| Acetone | 170 | 20 | 410 | | 48 |
| Ethylbenzene | 0.35 | 0.80 | 1.5 | J | 3.5 |
| Trichlorofluoromethane | 0.31 | 0.80 | 1.7 | J | 4.5 |
| n-Heptane | 5.9 | 2.0 | 24 | | 8.2 |
| Hexachlorobutadiene | ND | 4.0 | ND | | 43 |
| n-Hexane | 1.9 | 2.0 | 6.8 | J | 7.0 |
| 2,2,4-Trimethylpentane | ND | 2.0 | ND | | 9.3 |
| tert-Butyl alcohol | 32 | 8.0 | 96 | | 24 |
| Methylene chloride | 1.4 | 2.0 | 4.9 | J B | 6.9 |
| Benzene | 1.2 | 0.80 | 3.8 | | 2.6 |
| Styrene | ND | 0.80 | ND | | 3.4 |
| 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | | 5.5 |
| Tetrachloroethene | ND | 0.80 | ND | | 5.4 |
| Tetrahydrofuran | ND | 4.0 | ND | | 12 |
| Toluene | 2.2 | 0.80 | 8.5 | | 3.0 |
| 1,2,4-Trichlorobenzene | ND | 4.0 | ND | | 30 |
| 1,1,1-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| 1,1,2-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| Trichloroethene | ND | 0.80 | ND | | 4.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.80 | ND | | 6.1 |
| 1,2,4-Trimethylbenzene | 0.33 | 0.80 | 1.6 | J | 3.9 |
| 1,3,5-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| Vinyl chloride | 1.0 | 0.80 | 2.6 | | 2.0 |
| o-Xylene | 0.42 | 0.80 | 1.8 | J | 3.5 |
| Methyl tert-butyl ether | ND | 4.0 | ND | | 14 |
| m-Xylene & p-Xylene | 1.1 | 0.80 | 4.6 | | 3.5 |
| Bromodichloromethane | ND | 0.80 | ND | | 5.4 |
| 1,2-Dibromoethane (EDB) | ND | 0.80 | ND | | 6.1 |
| 2-Butanone (MEK) | 24 | 4.0 | 72 | | 12 |
| 4-Methyl-2-pentanone (MIBK) | 1.2 | 2.0 | 4.8 | J | 8.2 |
| Vinyl bromide | ND | 0.80 | ND | | 3.5 |
| Bromoform | ND | 0.80 | ND | | 8.3 |
| Bromomethane | ND | 0.80 | ND | | 3.1 |
| 1,3-Butadiene | ND | 1.6 | ND | | 3.5 |
| 4-Ethyltoluene | ND | 1.6 | ND | | 7.9 |
| Carbon disulfide | ND | 2.0 | ND | | 6.2 |
| Carbon tetrachloride | ND | 0.80 | ND | | 5.0 |

Lawhon and Associates

Client Sample ID: SU-S072008

GC/MS Volatiles

Lot-Sample # H8G220269 - 001 Work Order # KR0T41AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.80 | ND | | 3.7 |
| Dibromochloromethane | ND | 0.80 | ND | | 6.8 |
| **Chloroethane** | **2.1** | **0.80** | **5.6** | | **2.1** |
| Chloroform | ND | 0.80 | ND | | 3.9 |
| **Chloromethane** | **4.6** | **2.0** | **9.5** | | **4.1** |
| 3-Chloropropene | ND | 0.80 | ND | | 2.5 |
| 2-Chlorotoluene | ND | 1.6 | ND | | 8.3 |
| **Cyclohexane** | **4.0** | **2.0** | **14** | | **6.9** |
| 1,2-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,3-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,4-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| **Dichlorodifluoromethane** | **0.55** | **0.80** | **2.7** | **J** | **4.0** |
| 1,1-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,1-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| cis-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| trans-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloropropane | ND | 0.80 | ND | | 3.7 |
| cis-1,3-Dichloropropene | ND | 0.80 | ND | | 3.6 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Butanal | 11 | ppb(v/v) |
| Heptane, 3-methylene- | 72 | ppb(v/v) |
| Unknown | 11 | ppb(v/v) |
| Unknown | 11 | ppb(v/v) |
| 1-Propene, 2-methyl- | 150 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70 - 130 |
| Toluene-d8 | 103 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

Lawhon and Associates

Client Sample ID: SU-S072008

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G220269 - 001 | Work Order # | KR0T41AA | Matrix.....: | AIR |

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 and Associates

Client Sample ID: SU-G072008

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G220269 - 002 | Work Order # | KR0T71AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 07/20/2008 | Date Received..: | 07/22/2008 |
| Prep Date.....: | 07/24/2008 | Analysis Date... | 07/24/2008 |
| Prep Batch #.....: | 8207123 | | |
| 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** | **59** | **5.0** | **140** | | **12** |
| **Ethylbenzene** | **0.16** | **0.20** | **0.71** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.27** | **0.20** | **1.5** | | **1.1** |
| **n-Heptane** | **2.5** | **0.50** | **10** | | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.52** | **0.50** | **1.8** | | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| **tert-Butyl alcohol** | **3.6** | **2.0** | **11** | | **6.1** |
| **Methylene chloride** | **0.60** | **0.50** | **2.1** | **B** | **1.7** |
| **Benzene** | **0.95** | **0.20** | **3.0** | | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.92** | **0.20** | **3.5** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.071** | **0.20** | **0.55** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.34** | **0.20** | **1.7** | | **0.98** |
| **1,3,5-Trimethylbenzene** | **0.088** | **0.20** | **0.43** | **J** | **0.98** |
| **Vinyl chloride** | **0.37** | **0.20** | **0.95** | | **0.51** |
| **o-Xylene** | **0.24** | **0.20** | **1.0** | | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.56** | **0.20** | **2.4** | | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **8.6** | **1.0** | **25** | | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.28** | **0.50** | **1.1** | **J** | **2.0** |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| **Bromomethane** | **0.072** | **0.20** | **0.28** | **J** | **0.78** |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.15** | **0.50** | **0.46** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.13** | **0.20** | **0.83** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-G072008**

**GC/MS Volatiles**

**Lot-Sample #** H8G220269 - 002 **Work Order #** KR0T71AA **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** | **0.50** | **0.20** | **1.3** | | **0.53** |
| **Chloroform** | **0.092** | **0.20** | **0.45** | **J** | **0.98** |
| **Chloromethane** | **1.9** | **0.50** | **3.9** | | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| **Cyclohexane** | **0.20** | **0.50** | **0.69** | **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** | **0.52** | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Butanal | 4.1 | ppb(v/v) |
| Heptane, 3-methylene- | 5.0 | ppb(v/v) |
| Unknown | 3.1 | ppb(v/v) |
| Unknown | 2.9 | ppb(v/v) |
| Unknown | 3.0 | ppb(v/v) |
| 1-Propene, 2-methyl- | 48 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70 - 130 |
| Toluene-d8 | 95 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

**Qualifiers**

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

**Lawhon and Associates**

**Client Sample ID: SU-G072008**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8G220269 - 002 | **Work Order #** | KR0T71AA | **Matrix.....:** | AIR |

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 and Associates

Client Sample ID: SU-W072008

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G220269 - 003 | Work Order # | KR0T81AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 07/20/2008 | Date Received..: | 07/22/2008 |
| Prep Date.....: | 07/24/2008 | Analysis Date... | 07/25/2008 |
| Prep Batch #.....: | 8207123 | | |
| Dilution Factor.: | 4 | 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 | 0.80 | ND | | 3.6 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.80 | ND | | 5.6 |
| **Acetone** | **85** | **20** | **200** | | **48** |
| Ethylbenzene | ND | 0.80 | ND | | 3.5 |
| **Trichlorofluoromethane** | **0.27** | **0.80** | **1.5** | **J** | **4.5** |
| **n-Heptane** | **4.4** | **2.0** | **18** | | **8.2** |
| Hexachlorobutadiene | ND | 4.0 | ND | | 43 |
| **n-Hexane** | **1.2** | **2.0** | **4.4** | **J** | **7.0** |
| 2,2,4-Trimethylpentane | ND | 2.0 | ND | | 9.3 |
| **tert-Butyl alcohol** | **24** | **8.0** | **72** | | **24** |
| **Methylene chloride** | **1.5** | **2.0** | **5.3** | **J B** | **6.9** |
| **Benzene** | **0.65** | **0.80** | **2.1** | **J** | **2.6** |
| Styrene | ND | 0.80 | ND | | 3.4 |
| 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | | 5.5 |
| Tetrachloroethene | ND | 0.80 | ND | | 5.4 |
| Tetrahydrofuran | ND | 4.0 | ND | | 12 |
| **Toluene** | **1.2** | **0.80** | **4.6** | | **3.0** |
| 1,2,4-Trichlorobenzene | ND | 4.0 | ND | | 30 |
| 1,1,1-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| 1,1,2-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| Trichloroethene | ND | 0.80 | ND | | 4.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.80 | ND | | 6.1 |
| 1,2,4-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| 1,3,5-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| Vinyl chloride | ND | 0.80 | ND | | 2.0 |
| o-Xylene | ND | 0.80 | ND | | 3.5 |
| Methyl tert-butyl ether | ND | 4.0 | ND | | 14 |
| **m-Xylene & p-Xylene** | **0.58** | **0.80** | **2.5** | **J** | **3.5** |
| Bromodichloromethane | ND | 0.80 | ND | | 5.4 |
| 1,2-Dibromoethane (EDB) | ND | 0.80 | ND | | 6.1 |
| **2-Butanone (MEK)** | **19** | **4.0** | **57** | | **12** |
| **4-Methyl-2-pentanone (MIBK)** | **0.85** | **2.0** | **3.5** | **J** | **8.2** |
| Vinyl bromide | ND | 0.80 | ND | | 3.5 |
| Bromoform | ND | 0.80 | ND | | 8.3 |
| Bromomethane | ND | 0.80 | ND | | 3.1 |
| 1,3-Butadiene | ND | 1.6 | ND | | 3.5 |
| 4-Ethyltoluene | ND | 1.6 | ND | | 7.9 |
| Carbon disulfide | ND | 2.0 | ND | | 6.2 |
| Carbon tetrachloride | ND | 0.80 | ND | | 5.0 |

Lawhon and Associates

Client Sample ID: SU-W072008

GC/MS Volatiles

Lot-Sample # H8G220269 - 003 Work Order # KR0T81AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.80 | ND | | 3.7 |
| Dibromochloromethane | ND | 0.80 | ND | | 6.8 |
| **Chloroethane** | **1.7** | **0.80** | **4.6** | | **2.1** |
| Chloroform | ND | 0.80 | ND | | 3.9 |
| **Chloromethane** | **2.3** | **2.0** | **4.7** | | **4.1** |
| 3-Chloropropene | ND | 0.80 | ND | | 2.5 |
| 2-Chlorotoluene | ND | 1.6 | ND | | 8.3 |
| **Cyclohexane** | **0.95** | **2.0** | **3.3** | **J** | **6.9** |
| 1,2-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,3-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,4-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| **Dichlorodifluoromethane** | **0.59** | **0.80** | **2.9** | **J** | **4.0** |
| 1,1-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,1-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| cis-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| trans-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloropropane | ND | 0.80 | ND | | 3.7 |
| cis-1,3-Dichloropropene | ND | 0.80 | ND | | 3.6 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Heptane, 3-methylene- | 22 | ppb(v/v) |
| Unknown | 19 | ppb(v/v) |
| 1-Propene, 2-methyl- | 20 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 95 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-C072008

GC/MS Volatiles

Lot-Sample # H8G220269 - 004 Work Order # KR0VC1AA Matrix.....: AIR

Date Sampled...: 07/20/2008 Date Received..: 07/22/2008
Prep Date.....: 07/24/2008 Analysis Date... 07/25/2008
Prep Batch #.....: 8207123
Dilution Factor.: 10 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 | 2.0 | ND | | 9.1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 2.0 | ND | | 14 |
| **Acetone** | **170** | **50** | **400** | | **120** |
| Ethylbenzene | ND | 2.0 | ND | | 8.7 |
| **Trichlorofluoromethane** | **0.35** | **2.0** | **2.0** | **J** | **11** |
| **n-Heptane** | **39** | **5.0** | **160** | | **20** |
| Hexachlorobutadiene | ND | 10 | ND | | 110 |
| **n-Hexane** | **17** | **5.0** | **58** | | **18** |
| 2,2,4-Trimethylpentane | ND | 5.0 | ND | | 23 |
| **tert-Butyl alcohol** | **72** | **20** | **220** | | **61** |
| **Methylene chloride** | **9.2** | **5.0** | **32** | **B** | **17** |
| **Benzene** | **2.0** | **2.0** | **6.3** | | **6.4** |
| Styrene | ND | 2.0 | ND | | 8.5 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ND | | 14 |
| Tetrachloroethene | ND | 2.0 | ND | | 14 |
| Tetrahydrofuran | ND | 10 | ND | | 29 |
| **Toluene** | **1.9** | **2.0** | **7.2** | **J** | **7.5** |
| 1,2,4-Trichlorobenzene | ND | 10 | ND | | 74 |
| 1,1,1-Trichloroethane | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloroethane | ND | 2.0 | ND | | 11 |
| Trichloroethene | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 2.0 | ND | | 15 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| **Vinyl chloride** | **0.84** | **2.0** | **2.2** | **J** | **5.1** |
| o-Xylene | ND | 2.0 | ND | | 8.7 |
| Methyl tert-butyl ether | ND | 10 | ND | | 36 |
| m-Xylene & p-Xylene | ND | 2.0 | ND | | 8.7 |
| Bromodichloromethane | ND | 2.0 | ND | | 13 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ND | | 15 |
| **2-Butanone (MEK)** | **37** | **10** | **110** | | **29** |
| **4-Methyl-2-pentanone (MIBK)** | **1.2** | **5.0** | **4.8** | **J** | **20** |
| Vinyl bromide | ND | 2.0 | ND | | 8.7 |
| Bromoform | ND | 2.0 | ND | | 21 |
| Bromomethane | ND | 2.0 | ND | | 7.8 |
| 1,3-Butadiene | ND | 4.0 | ND | | 8.8 |
| 4-Ethyltoluene | ND | 4.0 | ND | | 20 |
| Carbon disulfide | ND | 5.0 | ND | | 16 |
| Carbon tetrachloride | ND | 2.0 | ND | | 13 |

**Lawhon and Associates**

**Client Sample ID: SU-C072008**

**GC/MS Volatiles**

**Lot-Sample #** H8G220269 - 004 **Work Order #** KR0VC1AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 2.0 | ND | | 9.2 |
| Dibromochloromethane | ND | 2.0 | ND | | 17 |
| **Chloroethane** | **2.2** | **2.0** | **5.7** | | 5.3 |
| Chloroform | ND | 2.0 | ND | | 9.8 |
| **Chloromethane** | **5.5** | **5.0** | **11** | | 10 |
| 3-Chloropropene | ND | 2.0 | ND | | 6.3 |
| 2-Chlorotoluene | ND | 4.0 | ND | | 21 |
| **Cyclohexane** | **1.1** | **5.0** | **3.9** | **J** | 17 |
| 1,2-Dichlorobenzene | ND | 2.0 | ND | | 12 |
| 1,3-Dichlorobenzene | ND | 2.0 | ND | | 12 |
| 1,4-Dichlorobenzene | ND | 2.0 | ND | | 12 |
| Dichlorodifluoromethane | ND | 2.0 | ND | | 9.9 |
| 1,1-Dichloroethane | ND | 2.0 | ND | | 8.1 |
| 1,2-Dichloroethane | ND | 2.0 | ND | | 8.1 |
| 1,1-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| cis-1,2-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| trans-1,2-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| 1,2-Dichloropropane | ND | 2.0 | ND | | 9.2 |
| cis-1,3-Dichloropropene | ND | 2.0 | ND | | 9.1 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Butanal | 29 | ppb(v/v) |
| Heptane, 3-methylene- | 49 | ppb(v/v) |
| Octane | 26 | ppb(v/v) |
| Propene | 120 | ppb(v/v) |
| Unknown | 98 | ppb(v/v) |
| Unknown | 140 | ppb(v/v) |
| 1-Propene, 2-methyl- | 240 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 104 | 70 - 130 |
| 4-Bromofluorobenzene | 97 | 70 - 130 |

**Qualifiers**

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

**Lawhon and Associates**

**Client Sample ID: SU-C072008**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8G220269 - 004 | **Work Order #** | KR0VC1AA | **Matrix.....:** | AIR |

---

**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 and Associates**

**Client Sample ID: SU-TBT072008**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8G220269 - 005 | **Work Order #** | KR0VD1AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| **Date Sampled...:** | 07/20/2008 | **Date Received..:** | 07/22/2008 |
| **Prep Date.....:** | 07/24/2008 | **Analysis Date...** | 07/24/2008 |
| **Prep Batch #.....:** | 8207123 | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.21** | **0.50** | **0.72** | **J B** | **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** | **0.073** | **0.20** | **0.39** | **J** | **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 and Associates

Client Sample ID: SU-TBT072008

GC/MS Volatiles

Lot-Sample # H8G220269 - 005 Work Order # KR0VD1AA 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70 - 130 |
| Toluene-d8 | 104 | 70 - 130 |
| 4-Bromofluorobenzene | 92 | 70 - 130 |

Qualifiers

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

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

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

H8G 220269

№ 8111


❑ Lawhon and Associates, Inc.
❑ L&A Engineering, Inc.

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Phone: (614) 818-5200
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2115 Freeman Avenue
Cleveland, OH 44113
Phone: (216) 737-0100
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Sent To: Test America (Lab Name)
VIA: Fed Ex
Air Bill No.:
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): Rachel Secrest

Signature: Rachel Secrest

| Sample I.D. No. | Type | Type | Type | Date | Time min | Sample Location | Number of Containers | Turn Around/Requirements | Method | Analysis VOC | Analysis TPC | Expected Conc. (H,M,L) | Hold | Remarks: Suma Can # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SU-S072008- | | | | 7/20/08 | 1440 | School | 1 | | | X | X | | | SU-7784 |
| SU-G072008 | | | | 7/20/08 | 1440 | Campground | 1 | | | X | X | | | SU-1352 N |
| SU-W072008 | | | | 7/20/08 | 1440 | Wetland | 1 | | | X | X | | | SU-7788 |
| SU-C072008 | | | | 7/20/08 | 1440 | Cell Tower | 1 | | | X | X | | | SU-6116 |
| SU-TB072008 | | | | 7/20/08 | 1440 | Trip Blank | 1 | | | X | X | | | SU-7560 |

| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
|---|---|---|---|---|---|---|---|
| Rachel Secrest | 7/21/08 1600 | Ryan Henry | 7/22/08 1030 | | | | |
| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
| | | | | | | | |

Comments:

Distributor: White - File; Yellow - Lab

517

## Summary of Results

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

Report Date: 08/20/08
Job Number: E08-08342
Date Received: 07/22/08
Date Analyzed: 08/19/08

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

| Sample Name: | S072008-01A | | S072008-02A | | S072008-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08342-14 | | E08-08342-15 | | E08-08342-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.18 | 0.38 | 0.12 | 0.25 | 0.16 | 0.33 | 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: | G072008-01A | | G072008-02A | | G072008-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08342-17 | | E08-08342-18 | | E08-08342-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.20 | 0.42 | 0.18 | 0.38 | 0.18 | 0.38 | 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 |



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

Job Number: E08-08342

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

| Sample Name: | W072008-01A | | W072008-02A | | W072008-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08342-20 | | E08-08342-21 | | E08-08342-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.12 | 0.25 | 0.10 | 0.21 | 0.12 | 0.25 | 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: | C072008-01A * | | C072008-02A | | C072008-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08342-23 | | E08-08342-24 | | E08-08342-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.36 | 0.75 | 0.14 | 0.29 | 0.18 | 0.38 | 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 |



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

Job Number: E08-08342

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

Sample Name: 072008A-A
IAL ID: E08-08342-26

| Compound | ug | ug/m3 | Reporting Limits ug |
|---|---|---|---|
| Formaldehyde | < 0.1 | < 0.2 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | 0.1 |
| Acetone | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.3 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.4 | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | 0.1 |

*Denotes breakthrough from the front to the back of the sorbent tube.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 08/20/08
Job Number: E08-08342
Date Received: 7/22/08
Date Analyzed: 08/19/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S072008-01H | E08-08342-01 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| S072008-02H | E08-08342-02 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| S072008-03H | E08-08342-03 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G072008-01H | E08-08342-04 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G072008-02H | E08-08342-05 | 0.68 | 1.4 | < 0.4 | < 0.8 |
| G072008-03H | E08-08342-06 | 0.74 | 1.5 | < 0.4 | < 0.8 |
| W072008-01H | E08-08342-07 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W072008-02H | E08-08342-08 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W072008-03H | E08-08342-09 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| C072008-01H | E08-08342-10 | 0.68 | 1.4 | < 0.4 | < 0.8 |
| C072008-02H | E08-08342-11 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| C072008-03H | E08-08342-12 | 0.79 | 1.6 | < 0.4 | < 0.8 |
| 072008A-H | E08-08342-13 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| 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

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX B

## Laboratory Analytical Results from July 26/27, 2008

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8G300127

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

August 11, 2008

# ANALYTICAL METHODS SUMMARY

H8G300127

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**H8G300127**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KTC7C | 001 | SU-072308U | 07/23/08 | |
| KTC7G | 002 | SU-072308D | 07/23/08 | |
| KTC7J | 003 | SU-072408U | 07/24/08 | |
| KTC7L | 004 | SU-072408D | 07/24/08 | |
| KTC7R | 005 | SU-072508U | 07/25/08 | |
| KTC7W | 006 | SU-072508D | 07/25/08 | |
| KTC70 | 007 | SU-072608U | 07/26/08 | |
| KTC73 | 008 | SU-072608D | 07/26/08 | |
| KTC74 | 009 | SU-ST072608 | 07/26/08 | |
| KTC79 | 010 | SU-GT072608 | 07/26/08 | |
| KTC8A | 011 | SU-WT072608 | 07/26/08 | |
| KTC8E | 012 | SU-CT072608 | 07/26/08 | |
| KTC8J | 013 | SU-TBT0272608 | 07/28/08 | |

**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
## H8G300127

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

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

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

**Sample Receipt**

Custody seals were not present.

The containers for all samples were received without a label.

**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.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 7/30/08 exhibited a %difference of >30% but ≤40% for 1,2,4-trichlorobenzene.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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.

Lawhon and Associates

Client Sample ID: SU-ST072608

GC/MS Volatiles

Lot-Sample # H8G300127 - 009 Work Order # KTC741AA Matrix.....: AIR

Date Sampled...: 07/26/2008 Date Received..: 07/30/2008
Prep Date.....: 08/06/2008 Analysis Date... 08/06/2008
Prep Batch #.....: 8221069
Dilution Factor.: 6.67 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 | 1.3 | ND | | 6.1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 1.3 | ND | | 9.3 |
| **Acetone** | **170** | **33** | **400** | | **79** |
| Ethylbenzene | ND | 1.3 | ND | | 5.8 |
| **Trichlorofluoromethane** | **0.43** | **1.3** | **2.4** | **J** | **7.5** |
| **n-Heptane** | **3.3** | **3.3** | **14** | | **14** |
| Hexachlorobutadiene | ND | 6.7 | ND | | 71 |
| **n-Hexane** | **1.3** | **3.3** | **4.7** | **J** | **12** |
| 2,2,4-Trimethylpentane | ND | 3.3 | ND | | 16 |
| **tert-Butyl alcohol** | **17** | **13** | **53** | | **40** |
| **Methylene chloride** | **1.3** | **3.3** | **4.4** | **J B** | **12** |
| **Benzene** | **0.88** | **1.3** | **2.8** | **J** | **4.3** |
| Styrene | ND | 1.3 | ND | | 5.7 |
| 1,1,2,2-Tetrachloroethane | ND | 1.3 | ND | | 9.2 |
| **Tetrachloroethene** | **0.75** | **1.3** | **5.1** | **J** | **9.0** |
| Tetrahydrofuran | ND | 6.7 | ND | | 20 |
| **Toluene** | **1.2** | **1.3** | **4.6** | **J** | **5.0** |
| 1,2,4-Trichlorobenzene | ND | 6.7 | ND | | 49 |
| 1,1,1-Trichloroethane | ND | 1.3 | ND | | 7.3 |
| 1,1,2-Trichloroethane | ND | 1.3 | ND | | 7.3 |
| Trichloroethene | ND | 1.3 | ND | | 7.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.3 | ND | | 10 |
| 1,2,4-Trimethylbenzene | ND | 1.3 | ND | | 6.6 |
| 1,3,5-Trimethylbenzene | ND | 1.3 | ND | | 6.6 |
| **Vinyl chloride** | **1.1** | **1.3** | **2.8** | **J** | **3.4** |
| o-Xylene | ND | 1.3 | ND | | 5.8 |
| Methyl tert-butyl ether | ND | 6.7 | ND | | 24 |
| m-Xylene & p-Xylene | ND | 1.3 | ND | | 5.8 |
| Bromodichloromethane | ND | 1.3 | ND | | 8.9 |
| 1,2-Dibromoethane (EDB) | ND | 1.3 | ND | | 10 |
| **2-Butanone (MEK)** | **17** | **6.7** | **49** | | **20** |
| **4-Methyl-2-pentanone (MIBK)** | **0.65** | **3.3** | **2.7** | **J** | **14** |
| Vinyl bromide | ND | 1.3 | ND | | 5.8 |
| Bromoform | ND | 1.3 | ND | | 14 |
| Bromomethane | ND | 1.3 | ND | | 5.2 |
| 1,3-Butadiene | ND | 2.7 | ND | | 5.9 |
| 4-Ethyltoluene | ND | 2.7 | ND | | 13 |
| **Carbon disulfide** | **1.9** | **3.3** | **6.1** | **J** | **10** |
| Carbon tetrachloride | ND | 1.3 | ND | | 8.4 |

Lawhon and Associates

Client Sample ID: SU-ST072608

GC/MS Volatiles

Lot-Sample # H8G300127 - 009 Work Order # KTC741AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 1.3 | ND | | 6.1 |
| Dibromochloromethane | ND | 1.3 | ND | | 11 |
| **Chloroethane** | **1.7** | **1.3** | **4.5** | | **3.5** |
| Chloroform | ND | 1.3 | ND | | 6.5 |
| **Chloromethane** | **3.0** | **3.3** | **6.1** | **J** | **6.9** |
| 3-Chloropropene | ND | 1.3 | ND | | 4.2 |
| 2-Chlorotoluene | ND | 2.7 | ND | | 14 |
| Cyclohexane | ND | 3.3 | ND | | 11 |
| 1,2-Dichlorobenzene | ND | 1.3 | ND | | 8.0 |
| 1,3-Dichlorobenzene | ND | 1.3 | ND | | 8.0 |
| 1,4-Dichlorobenzene | ND | 1.3 | ND | | 8.0 |
| **Dichlorodifluoromethane** | **0.62** | **1.3** | **3.1** | **J** | **6.6** |
| 1,1-Dichloroethane | ND | 1.3 | ND | | 5.4 |
| 1,2-Dichloroethane | ND | 1.3 | ND | | 5.4 |
| 1,1-Dichloroethene | ND | 1.3 | ND | | 5.3 |
| cis-1,2-Dichloroethene | ND | 1.3 | ND | | 5.3 |
| trans-1,2-Dichloroethene | ND | 1.3 | ND | | 5.3 |
| 1,2-Dichloropropane | ND | 1.3 | ND | | 6.2 |
| cis-1,3-Dichloropropene | ND | 1.3 | ND | | 6.1 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Cyclopropane, ethyl- | 35 | ppb(v/v) |
| Heptane, 3-methylene- | 19 | ppb(v/v) |
| Propene | 100 | ppb(v/v) |
| Unknown | 18 | ppb(v/v) |
| Unknown | 18 | ppb(v/v) |
| 1-Propene, 2-methyl- | 140 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 70 - 130 |
| Toluene-d8 | 93 | 70 - 130 |
| 4-Bromofluorobenzene | 103 | 70 - 130 |

Qualifiers

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Lawhon and Associates

Client Sample ID: SU-ST072608

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G300127 - 009 | Work Order # | KTC741AA | Matrix.....: | AIR |

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 and Associates

Client Sample ID: SU-GT072608

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G300127 - 010 | Work Order # | KTC791AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 07/26/2008 | Date Received..: | 07/30/2008 |
| Prep Date.....: | 08/06/2008 | Analysis Date... | 08/06/2008 |
| Prep Batch #.....: | 8221069 | | |
| Dilution Factor.: | 10 | 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 | 2.0 | ND | | 9.1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 2.0 | ND | | 14 |
| **Acetone** | **330** | **50** | **780** | | **120** |
| Ethylbenzene | ND | 2.0 | ND | | 8.7 |
| **Trichlorofluoromethane** | **0.48** | **2.0** | **2.7** | **J** | **11** |
| **n-Heptane** | **21** | **5.0** | **87** | | **20** |
| Hexachlorobutadiene | ND | 10 | ND | | 110 |
| **n-Hexane** | **9.4** | **5.0** | **33** | | **18** |
| 2,2,4-Trimethylpentane | ND | 5.0 | ND | | 23 |
| **tert-Butyl alcohol** | **34** | **20** | **100** | | **61** |
| **Methylene chloride** | **1.9** | **5.0** | **6.5** | **J B** | **17** |
| **Benzene** | **1.1** | **2.0** | **3.5** | **J** | **6.4** |
| Styrene | ND | 2.0 | ND | | 8.5 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ND | | 14 |
| Tetrachloroethene | ND | 2.0 | ND | | 14 |
| Tetrahydrofuran | ND | 10 | ND | | 29 |
| **Toluene** | **0.98** | **2.0** | **3.7** | **J** | **7.5** |
| 1,2,4-Trichlorobenzene | ND | 10 | ND | | 74 |
| 1,1,1-Trichloroethane | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloroethane | ND | 2.0 | ND | | 11 |
| Trichloroethene | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 2.0 | ND | | 15 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| **Vinyl chloride** | **2.4** | **2.0** | **6.3** | | **5.1** |
| o-Xylene | ND | 2.0 | ND | | 8.7 |
| Methyl tert-butyl ether | ND | 10 | ND | | 36 |
| m-Xylene & p-Xylene | ND | 2.0 | ND | | 8.7 |
| Bromodichloromethane | ND | 2.0 | ND | | 13 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ND | | 15 |
| **2-Butanone (MEK)** | **34** | **10** | **100** | | **29** |
| **4-Methyl-2-pentanone (MIBK)** | **0.54** | **5.0** | **2.2** | **J** | **20** |
| Vinyl bromide | ND | 2.0 | ND | | 8.7 |
| Bromoform | ND | 2.0 | ND | | 21 |
| Bromomethane | ND | 2.0 | ND | | 7.8 |
| 1,3-Butadiene | ND | 4.0 | ND | | 8.8 |
| 4-Ethyltoluene | ND | 4.0 | ND | | 20 |
| Carbon disulfide | ND | 5.0 | ND | | 16 |
| Carbon tetrachloride | ND | 2.0 | ND | | 13 |

**Lawhon and Associates**

**Client Sample ID: SU-GT072608**

**GC/MS Volatiles**

**Lot-Sample #** H8G300127 - 010 **Work Order #** KTC791AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 2.0 | ND | | 9.2 |
| Dibromochloromethane | ND | 2.0 | ND | | 17 |
| **Chloroethane** | **4.2** | **2.0** | **11** | | **5.3** |
| Chloroform | ND | 2.0 | ND | | 9.8 |
| **Chloromethane** | **8.1** | **5.0** | **17** | | **10** |
| 3-Chloropropene | ND | 2.0 | ND | | 6.3 |
| 2-Chlorotoluene | ND | 4.0 | ND | | 21 |
| Cyclohexane | ND | 5.0 | ND | | 17 |
| 1,2-Dichlorobenzene | ND | 2.0 | ND | | 12 |
| 1,3-Dichlorobenzene | ND | 2.0 | ND | | 12 |
| **1,4-Dichlorobenzene** | **0.97** | **2.0** | **5.8** | **J** | **12** |
| Dichlorodifluoromethane | ND | 2.0 | ND | | 9.9 |
| 1,1-Dichloroethane | ND | 2.0 | ND | | 8.1 |
| 1,2-Dichloroethane | ND | 2.0 | ND | | 8.1 |
| 1,1-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| cis-1,2-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| trans-1,2-Dichloroethene | ND | 2.0 | ND | | 7.9 |
| 1,2-Dichloropropane | ND | 2.0 | ND | | 9.2 |
| cis-1,3-Dichloropropene | ND | 2.0 | ND | | 9.1 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Cyclopropane, ethyl- | 150 | ppb(v/v) |
| Propene | 280 | ppb(v/v) |
| Unknown | 52 | ppb(v/v) |
| Unknown | 160 | ppb(v/v) |
| Unknown | 100 | ppb(v/v) |
| 1-Propene, 2-methyl- | 390 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 96 | 70 - 130 |

**Qualifiers**

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

Lawhon and Associates

Client Sample ID: SU-GT072608

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G300127 - 010 | Work Order # | KTC791AA | Matrix.....: | AIR |

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 and Associates

Client Sample ID: SU-WT072608

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G300127 - 011 | Work Order # | KTC8A1AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 07/26/2008 | Date Received..: | 07/30/2008 |
| Prep Date.....: | 08/06/2008 | Analysis Date... | 08/06/2008 |
| Prep Batch #.....: | 8221069 | | |
| Dilution Factor.: | 5 | 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 | 1.0 | ND | | 4.5 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 1.0 | ND | | 7.0 |
| **Acetone** | **160** | **25** | **370** | | **59** |
| Ethylbenzene | ND | 1.0 | ND | | 4.3 |
| **Trichlorofluoromethane** | **0.27** | **1.0** | **1.5** | **J** | **5.6** |
| **n-Heptane** | **2.8** | **2.5** | **11** | | **10** |
| Hexachlorobutadiene | ND | 5.0 | ND | | 53 |
| **n-Hexane** | **1.1** | **2.5** | **3.8** | **J** | **8.8** |
| 2,2,4-Trimethylpentane | ND | 2.5 | ND | | 12 |
| **tert-Butyl alcohol** | **12** | **10** | **38** | | **30** |
| **Methylene chloride** | **0.69** | **2.5** | **2.4** | **J B** | **8.7** |
| **Benzene** | **0.72** | **1.0** | **2.3** | **J** | **3.2** |
| Styrene | ND | 1.0 | ND | | 4.3 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ND | | 6.9 |
| Tetrachloroethene | ND | 1.0 | ND | | 6.8 |
| Tetrahydrofuran | ND | 5.0 | ND | | 15 |
| **Toluene** | **1.7** | **1.0** | **6.3** | | **3.8** |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ND | | 37 |
| 1,1,1-Trichloroethane | ND | 1.0 | ND | | 5.5 |
| 1,1,2-Trichloroethane | ND | 1.0 | ND | | 5.5 |
| Trichloroethene | ND | 1.0 | ND | | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ND | | 7.7 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ND | | 4.9 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ND | | 4.9 |
| Vinyl chloride | ND | 1.0 | ND | | 2.6 |
| o-Xylene | ND | 1.0 | ND | | 4.3 |
| Methyl tert-butyl ether | ND | 5.0 | ND | | 18 |
| **m-Xylene & p-Xylene** | **0.78** | **1.0** | **3.4** | **J** | **4.3** |
| Bromodichloromethane | ND | 1.0 | ND | | 6.7 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ND | | 7.7 |
| **2-Butanone (MEK)** | **17** | **5.0** | **51** | | **15** |
| **4-Methyl-2-pentanone (MIBK)** | **0.54** | **2.5** | **2.2** | **J** | **10** |
| Vinyl bromide | ND | 1.0 | ND | | 4.4 |
| Bromoform | ND | 1.0 | ND | | 10 |
| Bromomethane | ND | 1.0 | ND | | 3.9 |
| 1,3-Butadiene | ND | 2.0 | ND | | 4.4 |
| 4-Ethyltoluene | ND | 2.0 | ND | | 9.8 |
| Carbon disulfide | ND | 2.5 | ND | | 7.8 |
| Carbon tetrachloride | ND | 1.0 | ND | | 6.3 |

Lawhon and Associates

Client Sample ID: SU-WT072608

GC/MS Volatiles

Lot-Sample # H8G300127 - 011 Work Order # KTC8A1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 1.0 | ND | | 4.6 |
| Dibromochloromethane | ND | 1.0 | ND | | 8.5 |
| **Chloroethane** | **1.6** | **1.0** | **4.3** | | **2.6** |
| Chloroform | ND | 1.0 | ND | | 4.9 |
| **Chloromethane** | **2.6** | **2.5** | **5.5** | | **5.2** |
| 3-Chloropropene | ND | 1.0 | ND | | 3.1 |
| 2-Chlorotoluene | ND | 2.0 | ND | | 10 |
| Cyclohexane | ND | 2.5 | ND | | 8.6 |
| 1,2-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| 1,3-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| 1,4-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| **Dichlorodifluoromethane** | **0.52** | **1.0** | **2.6** | **J** | **4.9** |
| 1,1-Dichloroethane | ND | 1.0 | ND | | 4.0 |
| 1,2-Dichloroethane | ND | 1.0 | ND | | 4.0 |
| 1,1-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| trans-1,2-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| 1,2-Dichloropropane | ND | 1.0 | ND | | 4.6 |
| cis-1,3-Dichloropropene | ND | 1.0 | ND | | 4.5 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Cyclopropane, ethyl- | 16 | ppb(v/v) |
| Propene | 25 | ppb(v/v) |
| Unknown | 34 | ppb(v/v) |
| 1-Propene, 2-methyl- | 35 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-CT072608

GC/MS Volatiles

Lot-Sample # H8G300127 - 012 Work Order # KTC8E1AA Matrix.....: AIR

Date Sampled...: 07/26/2008 Date Received..: 07/30/2008
Prep Date.....: 08/06/2008 Analysis Date... 08/07/2008
Prep Batch #.....: 8221069
Dilution Factor.: 20 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 | 4.0 | ND | | 18 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 4.0 | ND | | 28 |
| **Acetone** | **310** | **100** | **740** | | **240** |
| Ethylbenzene | ND | 4.0 | ND | | 17 |
| Trichlorofluoromethane | ND | 4.0 | ND | | 22 |
| **n-Heptane** | **16** | **10** | **67** | | **41** |
| Hexachlorobutadiene | ND | 20 | ND | | 210 |
| **n-Hexane** | **2.4** | **10** | **8.6** | **J** | **35** |
| 2,2,4-Trimethylpentane | ND | 10 | ND | | 47 |
| **tert-Butyl alcohol** | **27** | **40** | **83** | **J** | **120** |
| **Methylene chloride** | **8.0** | **10** | **28** | **J B** | **35** |
| **Benzene** | **4.7** | **4.0** | **15** | | **13** |
| Styrene | ND | 4.0 | ND | | 17 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | ND | | 27 |
| Tetrachloroethene | ND | 4.0 | ND | | 27 |
| Tetrahydrofuran | ND | 20 | ND | | 59 |
| **Toluene** | **1.2** | **4.0** | **4.6** | **J** | **15** |
| 1,2,4-Trichlorobenzene | ND | 20 | ND | | 150 |
| 1,1,1-Trichloroethane | ND | 4.0 | ND | | 22 |
| 1,1,2-Trichloroethane | ND | 4.0 | ND | | 22 |
| Trichloroethene | ND | 4.0 | ND | | 21 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 4.0 | ND | | 31 |
| 1,2,4-Trimethylbenzene | ND | 4.0 | ND | | 20 |
| 1,3,5-Trimethylbenzene | ND | 4.0 | ND | | 20 |
| **Vinyl chloride** | **3.1** | **4.0** | **8.0** | **J** | **10** |
| o-Xylene | ND | 4.0 | ND | | 17 |
| Methyl tert-butyl ether | ND | 20 | ND | | 72 |
| m-Xylene & p-Xylene | ND | 4.0 | ND | | 17 |
| Bromodichloromethane | ND | 4.0 | ND | | 27 |
| 1,2-Dibromoethane (EDB) | ND | 4.0 | ND | | 31 |
| **2-Butanone (MEK)** | **44** | **20** | **130** | | **59** |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | ND | | 41 |
| Vinyl bromide | ND | 4.0 | ND | | 17 |
| Bromoform | ND | 4.0 | ND | | 41 |
| Bromomethane | ND | 4.0 | ND | | 16 |
| 1,3-Butadiene | ND | 8.0 | ND | | 18 |
| 4-Ethyltoluene | ND | 8.0 | ND | | 39 |
| Carbon disulfide | ND | 10 | ND | | 31 |
| Carbon tetrachloride | ND | 4.0 | ND | | 25 |

Lawhon and Associates

Client Sample ID: SU-CT072608

GC/MS Volatiles

Lot-Sample # H8G300127 - 012 Work Order # KTC8E1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 4.0 | ND | 18 |
| Dibromochloromethane | ND | 4.0 | ND | 34 |
| **Chloroethane** | **5.4** | **4.0** | **14** | **11** |
| Chloroform | ND | 4.0 | ND | 20 |
| **Chloromethane** | **12** | **10** | **25** | **21** |
| 3-Chloropropene | ND | 4.0 | ND | 13 |
| 2-Chlorotoluene | ND | 8.0 | ND | 41 |
| Cyclohexane | ND | 10 | ND | 34 |
| 1,2-Dichlorobenzene | ND | 4.0 | ND | 24 |
| 1,3-Dichlorobenzene | ND | 4.0 | ND | 24 |
| 1,4-Dichlorobenzene | ND | 4.0 | ND | 24 |
| Dichlorodifluoromethane | ND | 4.0 | ND | 20 |
| 1,1-Dichloroethane | ND | 4.0 | ND | 16 |
| 1,2-Dichloroethane | ND | 4.0 | ND | 16 |
| 1,1-Dichloroethene | ND | 4.0 | ND | 16 |
| cis-1,2-Dichloroethene | ND | 4.0 | ND | 16 |
| trans-1,2-Dichloroethene | ND | 4.0 | ND | 16 |
| 1,2-Dichloropropane | ND | 4.0 | ND | 18 |
| cis-1,3-Dichloropropene | ND | 4.0 | ND | 18 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Cyclopropane, ethyl- | 100 | ppb(v/v) |
| Propene | 320 | ppb(v/v) |
| Unknown | 150 | ppb(v/v) |
| 1-Propene, 2-methyl- | 380 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70 - 130 |
| Toluene-d8 | 104 | 70 - 130 |
| 4-Bromofluorobenzene | 98 | 70 - 130 |

Qualifiers

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

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

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

**Lawhon and Associates**

**Client Sample ID: SU-TBT0272608**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8G300127 - 013 | **Work Order #** | KTC8J1AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| **Date Sampled...:** | 07/28/2008 | **Date Received..:** | 07/30/2008 |
| **Prep Date.....:** | 08/06/2008 | **Analysis Date...** | 08/06/2008 |
| **Prep Batch #.....:** | 8221069 | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.14** | **0.50** | **0.49** | **J B** | **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 and Associates**

**Client Sample ID: SU-TBT0272608**

**GC/MS Volatiles**

**Lot-Sample #** H8G300127 - 013 **Work Order #** KTC8J1AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70 - 130 |
| Toluene-d8 | 106 | 70 - 130 |
| 4-Bromofluorobenzene | 95 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G310000 - 260B | Work Order # | KTFNX1AA | Matrix.....: | AIR |
| | 07/23/2008 | Date Received..: | 07/30/2008 | | |
| Prep Date.....: | 07/30/2008 | Analysis Date... | 07/30/2008 | | |
| Prep Batch #.....: | 8213260 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| Methylene chloride | 0.12 | 0.50 | 0.41 | J | 1.7 |
| Benzene | ND | 0.20 | ND | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | ND | 0.20 | ND | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.20 | ND | | 1.5 |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | ND | 1.0 | ND | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| Carbon disulfide | ND | 0.50 | ND | | 1.6 |

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H8G310000 - 260B Work Order # KTFNX1AA 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | 70 - 130 |
| Toluene-d8 | 104 | 70 - 130 |
| 4-Bromofluorobenzene | 93 | 70 - 130 |

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8G310000 - 260C | Work Order # | KTFNX1AC | Matrix.....: | AIR |
| | 07/23/2008 | Date Received..: | 07/30/2008 | | |
| Prep Date.....: | 07/30/2008 | Analysis Date... | 07/30/2008 | | |
| Prep Batch #.....: | 8213260 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 1.92 | 8.0 | 6.1 | 77 | 70 - 130 |
| Toluene | 2.50 | 1.93 | 9.4 | 7.3 | 77 | 70 - 130 |
| Trichloroethene | 2.50 | 1.86 | 13 | 10 | 75 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.15 | 12 | 9.9 | 86 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.33 | 9.9 | 9.2 | 93 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70 - 130 |
| Toluene-d8 | 99 | 70 - 130 |
| 4-Bromofluorobenzene | 101 | 70 - 130 |

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

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H080000 - 069B | **Work Order #** | KTTDR1AA | **Matrix.....:** | AIR |
| | 07/31/2008 | **Date Received..:** | 08/01/2008 | | |
| **Prep Date.....:** | 08/06/2008 | **Analysis Date...** | 08/06/2008 | | |
| **Prep Batch #.....:** | 8221069 | | | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 | | |

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H080000 - 069B **Work Order #** KTTDR1AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 70 - 130 |
| Toluene-d8 | 100 | 70 - 130 |
| 4-Bromofluorobenzene | 100 | 70 - 130 |

**Qualifiers**

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H080000 - 069C | Work Order # | KTTDR1AC | Matrix.....: | AIR |
| | 07/31/2008 | Date Received..: | 08/01/2008 | | |
| Prep Date.....: | 08/06/2008 | Analysis Date... | 08/06/2008 | | |
| Prep Batch #.....: | 8221069 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.40 | 8.0 | 7.7 | 96 | 70 - 130 |
| Toluene | 2.50 | 2.15 | 9.4 | 8.1 | 86 | 70 - 130 |
| Trichloroethene | 2.50 | 2.40 | 13 | 13 | 96 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.31 | 12 | 11 | 92 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.58 | 9.9 | 10 | 103 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70 - 130 |
| Toluene-d8 | 100 | 70 - 130 |
| 4-Bromofluorobenzene | 102 | 70 - 130 |

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

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

H8G300127 № 5106

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


975 ~~929~~ Eastwind Drive, Suite 100 ~~211~~
Westerville, OH 43081
Phone: (614) 818-5200
Fax: (614) 818-5219

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Phone (216) 737-0100
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10901 Reed Hartman Hwy., Ste. 201
Cincinnati, OH 45242
Phone (513) 936-9233 Fax (513) 936-9266


Sent To: Test America (Lab Name)
VIA: FedEx
Air Bill No.:
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): Bart Krieger

Signature: Bart Krieger

| Sample I.D. No. | Type | Comp | Grab | Date | ~~Time~~ MIN | Sample Location | Number of Containers | Turn Around/Requirements | Analysis | Method | VOC | TIC | Expected Conc. (H,M,L) | Hold | Remarks: SUMA CAN # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SV-ST072608 | | | | 7/26/08 | 1440 | School | 1 | | | | X | X | | | 11287 |
| SV-GT072608 | | | | 7/26/08 | 1440 | Campground | 1 | | | | X | X | | | 6396 |
| SV-WT072608 | | | | 7/26/08 | 1440 | Wetland | 1 | | | | X | X | | | 12185 |
| SV-CT072608 | | | | 7/26/08 | 1440 | Cell Tower | 1 | | | | X | X | | | 04404 |
| SV-TB072608 | | | | 7/26/08 | – | Trip Blank | 1 | | | | X | X | | | 12587 |

| Relinquished by: (signature) | Date/Time | Received By: (signature) | Date/Time | Relinquished By: (signature) | Date/Time | Received By: (signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| Bart Krieger | 7/29/08 1600 | Ryan Henry | 7/30/08 0950 | | | | |
| Relinquished by: (signature) | Date/Time | Received By: (signature) | Date/Time | Relinquished By: (signature) | Date/Time | Received By: (signature) | Date/Time |
| | | | | | | | |

Comments:

Distribution: White - File; Yellow - Lab

## Summary of Results

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

Report Date: 08/22/08
Job Number: E08-08644
Date Received: 07/30/08
Date Analyzed: 08/22/08

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

| Sample Name: | S072608-01A | | S072608-02A | | S072608-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08644-14 | | E08-08644-15 | | E08-08644-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.12 | 0.25 | 0.12 | 0.25 | 0.10 | 0.21 | 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: | G072608-01A | | G072608-02A | | G072608-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08644-17 | | E08-08644-18 | | E08-08644-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.14 | 0.29 | 0.50 | 1.04 | 0.12 | 0.25 | 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 |



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

Job Number: E08-08644

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

| Sample Name: | W072608-01A | | W072608-02A | | W072608-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08644-20 | | E08-08644-21 | | E08-08644-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.30 | 0.63 | 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: | C072608-01A | | C072608-02A | | C072608-03A * | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08644-23 | | E08-08644-24 | | E08-08644-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.12 | 0.25 | 0.16 | 0.33 | 0.42 | 0.88 | 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 |



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

Job Number: E08-08644

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

Sample Name: 072608A-A
IAL ID: E08-08342-26

| Compound | ug | ug/m3 | Reporting Limits ug |
|---|---|---|---|
| Formaldehyde | < 0.1 | N/A | 0.1 |
| Acetaldehyde | < 0.1 | N/A | 0.1 |
| Acetone | < 0.1 | N/A | 0.1 |
| Acrolein | < 0.1 | N/A | 0.1 |
| Propionaldehyde | < 0.1 | N/A | 0.1 |
| Crotonaldehyde | < 0.1 | N/A | 0.1 |
| Butyraldehyde | < 0.1 | N/A | 0.1 |
| Benzaldehyde | < 0.1 | N/A | 0.1 |
| Isovaleraldehyde | < 0.6 | N/A | 0.6 |
| Valeraldehyde | < 0.2 | N/A | 0.2 |
| o-Tolualdehyde | < 0.2 | N/A | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | N/A | 0.1 |
| Hexaldehyde | < 0.1 | N/A | 0.1 |

*Denotes breakthrough from the front to the back of the sorbent tube.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 08/22/08
Job Number: E08-08644
Date Received: 7/30/08
Date Analyzed: 08/19/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S072608-01H | E08-08644-01 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| S072608-02H | E08-08644-02 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| S072608-03H | E08-08644-03 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G072608-01H | E08-08644-04 | < 0.6 | < 1.3 | 4.2 | 8.7 |
| G072608-02H | E08-08644-05 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| G072608-03H | E08-08644-06 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W072608-01H | E08-08644-07 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W072608-02H | E08-08644-08 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| W072608-03H | E08-08644-09 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| C072608-01H | E08-08644-10 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| C072608-02H | E08-08644-11 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| C072608-03H | E08-08644-12 | < 0.6 | < 1.3 | < 0.4 | < 0.8 |
| 072608A-H | E08-08644-13 | < 0.6 | N/A | < 0.4 | N/A |
| 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: J. Walukiewicz

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX C

## Laboratory Analytical Results from August 01/02, 2008

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8H050116

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

August 13, 2008

# ANALYTICAL METHODS SUMMARY

**H8H050116**

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**H8H050116**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KTLMC | 001 | SU-ST080108 | 08/01/08 | 14:40 |
| KTLMJ | 002 | SU-GT080108 | 08/01/08 | 14:40 |
| KTLMM | 003 | SU-WT080108 | 08/01/08 | 14:40 |
| KTLMN | 004 | SU-CT080108 | 08/01/08 | 14:40 |
| KTLMP | 005 | SU-TBT80108 | 08/04/08 | 14:40 |
| KTLMQ | 006 | SU- | 08/04/08 | 14:40 |

**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
## H8H050116

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

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

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

**Sample Receipt**

Custody seals were not present.

The sample container labels did not contain a client sample ID.

The chain of custody documentation did not list a canister number for sample SU-(Sample Location Office).

**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.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 08/08/08 and 08/11/08 exhibited a %difference of 31% for acetone.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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 and Associates**

**Client Sample ID: SU-ST080108**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H050116 - 001 | **Work Order #** | KTLMC1AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| **Date Sampled...:** | 08/01/2008 | **Date Received..:** | 08/05/2008 |
| **Prep Date.....:** | 08/08/2008 | **Analysis Date...** | 08/08/2008 |
| **Prep Batch #.....:** | 8224198 | | |
| **Dilution Factor.:** | 4 | **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 | 0.80 | ND | | 3.6 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.80 | ND | | 5.6 |
| **Acetone** | **120** | **20** | **280** | | **48** |
| Ethylbenzene | ND | 0.80 | ND | | 3.5 |
| **Trichlorofluoromethane** | **0.30** | **0.80** | **1.7** | **J** | **4.5** |
| **n-Heptane** | **4.2** | **2.0** | **17** | | **8.2** |
| Hexachlorobutadiene | ND | 4.0 | ND | | 43 |
| **n-Hexane** | **1.2** | **2.0** | **4.2** | **J B** | **7.0** |
| 2,2,4-Trimethylpentane | ND | 2.0 | ND | | 9.3 |
| **tert-Butyl alcohol** | **22** | **8.0** | **67** | | **24** |
| **Methylene chloride** | **1.3** | **2.0** | **4.7** | **J B** | **6.9** |
| **Benzene** | **0.88** | **0.80** | **2.8** | | **2.6** |
| Styrene | ND | 0.80 | ND | | 3.4 |
| 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | | 5.5 |
| Tetrachloroethene | ND | 0.80 | ND | | 5.4 |
| **Tetrahydrofuran** | **0.44** | **4.0** | **1.3** | **J** | **12** |
| **Toluene** | **1.6** | **0.80** | **5.9** | | **3.0** |
| 1,2,4-Trichlorobenzene | ND | 4.0 | ND | | 30 |
| 1,1,1-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| 1,1,2-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| Trichloroethene | ND | 0.80 | ND | | 4.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.80 | ND | | 6.1 |
| 1,2,4-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| 1,3,5-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| **Vinyl chloride** | **0.37** | **0.80** | **0.94** | **J** | **2.0** |
| o-Xylene | ND | 0.80 | ND | | 3.5 |
| Methyl tert-butyl ether | ND | 4.0 | ND | | 14 |
| **m-Xylene & p-Xylene** | **0.75** | **0.80** | **3.2** | **J** | **3.5** |
| Bromodichloromethane | ND | 0.80 | ND | | 5.4 |
| 1,2-Dibromoethane (EDB) | ND | 0.80 | ND | | 6.1 |
| **2-Butanone (MEK)** | **27** | **4.0** | **78** | | **12** |
| **4-Methyl-2-pentanone (MIBK)** | **1.1** | **2.0** | **4.5** | **J** | **8.2** |
| Vinyl bromide | ND | 0.80 | ND | | 3.5 |
| Bromoform | ND | 0.80 | ND | | 8.3 |
| Bromomethane | ND | 0.80 | ND | | 3.1 |
| 1,3-Butadiene | ND | 1.6 | ND | | 3.5 |
| 4-Ethyltoluene | ND | 1.6 | ND | | 7.9 |
| Carbon disulfide | ND | 2.0 | ND | | 6.2 |
| Carbon tetrachloride | ND | 0.80 | ND | | 5.0 |

Lawhon and Associates

Client Sample ID: SU-ST080108

GC/MS Volatiles

Lot-Sample # H8H050116 - 001 Work Order # KTLMC1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.80 | ND | | 3.7 |
| Dibromochloromethane | ND | 0.80 | ND | | 6.8 |
| **Chloroethane** | **0.92** | **0.80** | **2.4** | | **2.1** |
| Chloroform | ND | 0.80 | ND | | 3.9 |
| **Chloromethane** | **2.3** | **2.0** | **4.7** | | **4.1** |
| 3-Chloropropene | ND | 0.80 | ND | | 2.5 |
| 2-Chlorotoluene | ND | 1.6 | ND | | 8.3 |
| **Cyclohexane** | **1.5** | **2.0** | **5.2** | **J** | **6.9** |
| 1,2-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,3-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,4-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| **Dichlorodifluoromethane** | **0.51** | **0.80** | **2.5** | **J** | **4.0** |
| 1,1-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,1-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| cis-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| trans-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloropropane | ND | 0.80 | ND | | 3.7 |
| cis-1,3-Dichloropropene | ND | 0.80 | ND | | 3.6 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Cyclopropane, ethyl- | 17 | ppb(v/v) |
| Heptane, 3-methylene- | 53 | ppb(v/v) |
| Propene | 18 | ppb(v/v) |
| 1-Propene, 2-methyl- | 54 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 96 | 70 - 130 |
| 4-Bromofluorobenzene | 96 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-GT080108

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H050116 - 002 | Work Order # | KTLMJ1AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 08/01/2008 | Date Received..: | 08/05/2008 |
| Prep Date.....: | 08/11/2008 | Analysis Date... | 08/11/2008 |
| Prep Batch #.....: | 8225029 | | |
| Dilution Factor.: | 4 | 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 | 0.80 | ND | | 3.6 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.80 | ND | | 5.6 |
| **Acetone** | **72** | **20** | **170** | | **48** |
| Ethylbenzene | ND | 0.80 | ND | | 3.5 |
| **Trichlorofluoromethane** | **0.33** | **0.80** | **1.9** | **J** | **4.5** |
| **n-Heptane** | **3.9** | **2.0** | **16** | | **8.2** |
| Hexachlorobutadiene | ND | 4.0 | ND | | 43 |
| **n-Hexane** | **3.3** | **2.0** | **12** | | **7.0** |
| 2,2,4-Trimethylpentane | ND | 2.0 | ND | | 9.3 |
| **tert-Butyl alcohol** | **9.4** | **8.0** | **28** | | **24** |
| **Methylene chloride** | **1.7** | **2.0** | **5.9** | **J B** | **6.9** |
| **Benzene** | **0.35** | **0.80** | **1.1** | **J** | **2.6** |
| Styrene | ND | 0.80 | ND | | 3.4 |
| 1,1,2,2-Tetrachloroethane | ND | 0.80 | ND | | 5.5 |
| Tetrachloroethene | ND | 0.80 | ND | | 5.4 |
| Tetrahydrofuran | ND | 4.0 | ND | | 12 |
| **Toluene** | **0.56** | **0.80** | **2.1** | **J** | **3.0** |
| 1,2,4-Trichlorobenzene | ND | 4.0 | ND | | 30 |
| 1,1,1-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| 1,1,2-Trichloroethane | ND | 0.80 | ND | | 4.4 |
| Trichloroethene | ND | 0.80 | ND | | 4.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.80 | ND | | 6.1 |
| **1,2,4-Trimethylbenzene** | **0.38** | **0.80** | **1.9** | **J** | **3.9** |
| 1,3,5-Trimethylbenzene | ND | 0.80 | ND | | 3.9 |
| **Vinyl chloride** | **0.51** | **0.80** | **1.3** | **J** | **2.0** |
| o-Xylene | ND | 0.80 | ND | | 3.5 |
| Methyl tert-butyl ether | ND | 4.0 | ND | | 14 |
| m-Xylene & p-Xylene | ND | 0.80 | ND | | 3.5 |
| Bromodichloromethane | ND | 0.80 | ND | | 5.4 |
| 1,2-Dibromoethane (EDB) | ND | 0.80 | ND | | 6.1 |
| **2-Butanone (MEK)** | **8.5** | **4.0** | **25** | | **12** |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.0 | ND | | 8.2 |
| Vinyl bromide | ND | 0.80 | ND | | 3.5 |
| Bromoform | ND | 0.80 | ND | | 8.3 |
| Bromomethane | ND | 0.80 | ND | | 3.1 |
| 1,3-Butadiene | ND | 1.6 | ND | | 3.5 |
| 4-Ethyltoluene | ND | 1.6 | ND | | 7.9 |
| **Carbon disulfide** | **0.24** | **2.0** | **0.75** | **J** | **6.2** |
| Carbon tetrachloride | ND | 0.80 | ND | | 5.0 |

Lawhon and Associates

Client Sample ID: SU-GT080108

GC/MS Volatiles

Lot-Sample # H8H050116 - 002 Work Order # KTLMJ1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.80 | ND | | 3.7 |
| Dibromochloromethane | ND | 0.80 | ND | | 6.8 |
| **Chloroethane** | **0.96** | **0.80** | **2.5** | | **2.1** |
| Chloroform | ND | 0.80 | ND | | 3.9 |
| **Chloromethane** | **4.0** | **2.0** | **8.2** | | **4.1** |
| 3-Chloropropene | ND | 0.80 | ND | | 2.5 |
| 2-Chlorotoluene | ND | 1.6 | ND | | 8.3 |
| Cyclohexane | ND | 2.0 | ND | | 6.9 |
| 1,2-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,3-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| 1,4-Dichlorobenzene | ND | 0.80 | ND | | 4.8 |
| **Dichlorodifluoromethane** | **0.48** | **0.80** | **2.4** | **J** | **4.0** |
| 1,1-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloroethane | ND | 0.80 | ND | | 3.2 |
| 1,1-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| cis-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| trans-1,2-Dichloroethene | ND | 0.80 | ND | | 3.2 |
| 1,2-Dichloropropane | ND | 0.80 | ND | | 3.7 |
| cis-1,3-Dichloropropene | ND | 0.80 | ND | | 3.6 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 32 | ppb(v/v) |
| 1-Propene, 2-methyl- | 150 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70 - 130 |
| Toluene-d8 | 103 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-WT080108

GC/MS Volatiles

Lot-Sample # H8H050116 - 003 Work Order # - KTLMM1AA Matrix.....: AIR

Date Sampled...: 08/01/2008 Date Received..: 08/05/2008
Prep Date.....: 08/08/2008 Analysis Date... 08/08/2008
Prep Batch #.....: 8224198
Dilution Factor.: 5 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 | 1.0 | ND | | 4.5 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 1.0 | ND | | 7.0 |
| Acetone | 43 | 25 | 100 | | 59 |
| Ethylbenzene | ND | 1.0 | ND | | 4.3 |
| **Trichlorofluoromethane** | **0.29** | **1.0** | **1.6** | **J** | **5.6** |
| **n-Heptane** | **1.8** | **2.5** | **7.4** | **J** | **10** |
| Hexachlorobutadiene | ND | 5.0 | ND | | 53 |
| **n-Hexane** | **0.64** | **2.5** | **2.2** | **J B** | **8.8** |
| 2,2,4-Trimethylpentane | ND | 2.5 | ND | | 12 |
| **tert-Butyl alcohol** | **3.3** | **10** | **10** | **J** | **30** |
| **Methylene chloride** | **0.86** | **2.5** | **3.0** | **J B** | **8.7** |
| **Benzene** | **0.60** | **1.0** | **1.9** | **J** | **3.2** |
| Styrene | ND | 1.0 | ND | | 4.3 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ND | | 6.9 |
| Tetrachloroethene | ND | 1.0 | ND | | 6.8 |
| Tetrahydrofuran | ND | 5.0 | ND | | 15 |
| **Toluene** | **0.47** | **1.0** | **1.8** | **J** | **3.8** |
| 1,2,4-Trichlorobenzene | ND | 5.0 | ND | | 37 |
| 1,1,1-Trichloroethane | ND | 1.0 | ND | | 5.5 |
| 1,1,2-Trichloroethane | ND | 1.0 | ND | | 5.5 |
| Trichloroethene | ND | 1.0 | ND | | 5.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 1.0 | ND | | 7.7 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ND | | 4.9 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ND | | 4.9 |
| Vinyl chloride | ND | 1.0 | ND | | 2.6 |
| o-Xylene | ND | 1.0 | ND | | 4.3 |
| Methyl tert-butyl ether | ND | 5.0 | ND | | 18 |
| m-Xylene & p-Xylene | ND | 1.0 | ND | | 4.3 |
| Bromodichloromethane | ND | 1.0 | ND | | 6.7 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | ND | | 7.7 |
| **2-Butanone (MEK)** | **7.3** | **5.0** | **22** | | **15** |
| 4-Methyl-2-pentanone (MIBK) | ND | 2.5 | ND | | 10 |
| Vinyl bromide | ND | 1.0 | ND | | 4.4 |
| Bromoform | ND | 1.0 | ND | | 10 |
| Bromomethane | ND | 1.0 | ND | | 3.9 |
| 1,3-Butadiene | ND | 2.0 | ND | | 4.4 |
| 4-Ethyltoluene | ND | 2.0 | ND | | 9.8 |
| Carbon disulfide | ND | 2.5 | ND | | 7.8 |
| Carbon tetrachloride | ND | 1.0 | ND | | 6.3 |

**Lawhon and Associates**

**Client Sample ID: SU-WT080108**

**GC/MS Volatiles**

**Lot-Sample #** H8H050116 - 003 **Work Order #** KTLMM1AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 1.0 | ND | | 4.6 |
| Dibromochloromethane | ND | 1.0 | ND | | 8.5 |
| **Chloroethane** | **0.70** | **1.0** | **1.8** | **J** | **2.6** |
| Chloroform | ND | 1.0 | ND | | 4.9 |
| **Chloromethane** | **2.4** | **2.5** | **5.0** | **J** | **5.2** |
| 3-Chloropropene | ND | 1.0 | ND | | 3.1 |
| 2-Chlorotoluene | ND | 2.0 | ND | | 10 |
| Cyclohexane | ND | 2.5 | ND | | 8.6 |
| 1,2-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| 1,3-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| 1,4-Dichlorobenzene | ND | 1.0 | ND | | 6.0 |
| **Dichlorodifluoromethane** | **0.61** | **1.0** | **3.0** | **J** | **4.9** |
| 1,1-Dichloroethane | ND | 1.0 | ND | | 4.0 |
| 1,2-Dichloroethane | ND | 1.0 | ND | | 4.0 |
| 1,1-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| cis-1,2-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| trans-1,2-Dichloroethene | ND | 1.0 | ND | | 4.0 |
| 1,2-Dichloropropane | ND | 1.0 | ND | | 4.6 |
| cis-1,3-Dichloropropene | ND | 1.0 | ND | | 4.5 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Ethylene oxide | 13 | ppb(v/v) |
| 1-Propene, 2-methyl- | 13 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70 - 130 |
| Toluene-d8 | 96 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

**Qualifiers**

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

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

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

Lawhon and Associates

Client Sample ID: SU-CT080108

GC/MS Volatiles

Lot-Sample # H8H050116 - 004 Work Order # KTLMN1AA Matrix.....: AIR

Date Sampled...: 08/01/2008 Date Received..: 08/05/2008
Prep Date.....: 08/11/2008 Analysis Date... 08/11/2008
Prep Batch #.....: 8225029
Dilution Factor.: 10 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 | 2.0 | ND | | 9.1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 2.0 | ND | | 14 |
| **Acetone** | **230** | **50** | **540** | | **120** |
| Ethylbenzene | ND | 2.0 | ND | | 8.7 |
| **Trichlorofluoromethane** | **0.37** | **2.0** | **2.1** | **J** | **11** |
| **n-Heptane** | **8.9** | **5.0** | **36** | | **20** |
| Hexachlorobutadiene | ND | 10 | ND | | 110 |
| **n-Hexane** | **2.2** | **5.0** | **7.6** | **J** | **18** |
| 2,2,4-Trimethylpentane | ND | 5.0 | ND | | 23 |
| **tert-Butyl alcohol** | **20** | **20** | **61** | | **61** |
| **Methylene chloride** | **2.3** | **5.0** | **8.1** | **J B** | **17** |
| **Benzene** | **0.99** | **2.0** | **3.2** | **J** | **6.4** |
| Styrene | ND | 2.0 | ND | | 8.5 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | ND | | 14 |
| Tetrachloroethene | ND | 2.0 | ND | | 14 |
| Tetrahydrofuran | ND | 10 | ND | | 29 |
| **Toluene** | **1.4** | **2.0** | **5.3** | **J** | **7.5** |
| 1,2,4-Trichlorobenzene | ND | 10 | ND | | 74 |
| 1,1,1-Trichloroethane | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloroethane | ND | 2.0 | ND | | 11 |
| Trichloroethene | ND | 2.0 | ND | | 11 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 2.0 | ND | | 15 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ND | | 9.8 |
| **Vinyl chloride** | **1.1** | **2.0** | **2.8** | **J** | **5.1** |
| o-Xylene | ND | 2.0 | ND | | 8.7 |
| Methyl tert-butyl ether | ND | 10 | ND | | 36 |
| m-Xylene & p-Xylene | ND | 2.0 | ND | | 8.7 |
| Bromodichloromethane | ND | 2.0 | ND | | 13 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | ND | | 15 |
| **2-Butanone (MEK)** | **51** | **10** | **150** | | **29** |
| **4-Methyl-2-pentanone (MIBK)** | **0.86** | **5.0** | **3.5** | **J** | **20** |
| Vinyl bromide | ND | 2.0 | ND | | 8.7 |
| Bromoform | ND | 2.0 | ND | | 21 |
| Bromomethane | ND | 2.0 | ND | | 7.8 |
| 1,3-Butadiene | ND | 4.0 | ND | | 8.8 |
| 4-Ethyltoluene | ND | 4.0 | ND | | 20 |
| **Carbon disulfide** | **0.35** | **5.0** | **1.1** | **J** | **16** |
| Carbon tetrachloride | ND | 2.0 | ND | | 13 |

**Lawhon and Associates**

**Client Sample ID: SU-CT080108**

**GC/MS Volatiles**

**Lot-Sample #** H8H050116 - 004 **Work Order #** KTLMN1AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 2.0 | ND | 9.2 |
| Dibromochloromethane | ND | 2.0 | ND | 17 |
| **Chloroethane** | **2.0** | **2.0** | **5.3** | **5.3** |
| Chloroform | ND | 2.0 | ND | 9.8 |
| **Chloromethane** | **5.9** | **5.0** | **12** | **10** |
| 3-Chloropropene | ND | 2.0 | ND | 6.3 |
| 2-Chlorotoluene | ND | 4.0 | ND | 21 |
| Cyclohexane | ND | 5.0 | ND | 17 |
| 1,2-Dichlorobenzene | ND | 2.0 | ND | 12 |
| 1,3-Dichlorobenzene | ND | 2.0 | ND | 12 |
| 1,4-Dichlorobenzene | ND | 2.0 | ND | 12 |
| Dichlorodifluoromethane | ND | 2.0 | ND | 9.9 |
| 1,1-Dichloroethane | ND | 2.0 | ND | 8.1 |
| 1,2-Dichloroethane | ND | 2.0 | ND | 8.1 |
| 1,1-Dichloroethene | ND | 2.0 | ND | 7.9 |
| cis-1,2-Dichloroethene | ND | 2.0 | ND | 7.9 |
| trans-1,2-Dichloroethene | ND | 2.0 | ND | 7.9 |
| 1,2-Dichloropropane | ND | 2.0 | ND | 9.2 |
| cis-1,3-Dichloropropene | ND | 2.0 | ND | 9.1 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Heptane, 3-methylene- | 44 | ppb(v/v) |
| Propene | 58 | ppb(v/v) |
| Unknown | 27 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

**Qualifiers**

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

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

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

Lawhon and Associates

Client Sample ID: SU-TBT80108

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H050116 - 005 | Work Order # | KTLMP1AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 08/04/2008 | Date Received..: | 08/05/2008 |
| Prep Date.....: | 08/08/2008 | Analysis Date... | 08/08/2008 |
| Prep Batch #.....: | 8224198 | | |
| 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** | **0.20** | **0.20** | **0.86** | | **0.87** |
| **Trichlorofluoromethane** | **0.33** | **0.20** | **1.9** | | **1.1** |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.038** | **0.50** | **0.13** | **J B** | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.28** | **0.50** | **0.97** | **J B** | **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** | **0.083** | **0.20** | **0.31** | **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 | ND | 0.20 | ND | | 1.5 |
| **1,2,4-Trimethylbenzene** | **4.0** | **0.20** | **20** | | **0.98** |
| **1,3,5-Trimethylbenzene** | **1.8** | **0.20** | **9.0** | | **0.98** |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.31** | **0.20** | **1.3** | | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.82** | **0.20** | **3.6** | | **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 |
| Carbon tetrachloride | ND | 0.20 | ND | | 1.3 |

Lawhon and Associates

Client Sample ID: SU-TBT80108

GC/MS Volatiles

Lot-Sample # H8H050116 - 005 Work Order # KTLMP1AA 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 | 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Benzene, 1-ethyl-2-methyl- | 2.6 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H050116 - 006 | Work Order # | KTLMQ1AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 08/04/2008 | Date Received..: | 08/05/2008 |
| Prep Date.....: | 08/08/2008 | Analysis Date... | 08/08/2008 |
| Prep Batch #.....: | 8224198 | | |
| 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 | 30 | 5.0 | 71 | | 12 |
| Ethylbenzene | 0.12 | 0.20 | 0.51 | J | 0.87 |
| Trichlorofluoromethane | 0.21 | 0.20 | 1.2 | | 1.1 |
| n-Heptane | 0.50 | 0.50 | 2.0 | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | 0.23 | 0.50 | 0.81 | J B | 1.8 |
| 2,2,4-Trimethylpentane | 0.056 | 0.50 | 0.26 | J | 2.3 |
| tert-Butyl alcohol | 9.1 | 2.0 | 28 | | 6.1 |
| Methylene chloride | 0.33 | 0.50 | 1.1 | J B | 1.7 |
| Benzene | 0.26 | 0.20 | 0.82 | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | 0.063 | 0.20 | 0.43 | J | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | 0.53 | 0.20 | 2.0 | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.070 | 0.20 | 0.54 | J | 1.5 |
| 1,2,4-Trimethylbenzene | 0.30 | 0.20 | 1.5 | | 0.98 |
| 1,3,5-Trimethylbenzene | 0.078 | 0.20 | 0.38 | J | 0.98 |
| Vinyl chloride | 0.072 | 0.20 | 0.18 | J | 0.51 |
| o-Xylene | 0.18 | 0.20 | 0.78 | J | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | 0.43 | 0.20 | 1.9 | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | 2.5 | 1.0 | 7.5 | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | 0.097 | 0.50 | 0.40 | J | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | 0.14 | 0.40 | 0.67 | J | 2.0 |
| Carbon disulfide | 0.12 | 0.50 | 0.39 | J | 1.6 |
| Carbon tetrachloride | 0.070 | 0.20 | 0.44 | J | 1.3 |

**Lawhon and Associates**

**Client Sample ID: SU-**

**GC/MS Volatiles**

**Lot-Sample #** H8H050116 - 006 **Work Order #** KTLMQ1AA **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** | **0.051** | **0.20** | **0.14** | **J** | **0.53** |
| Chloroform | ND | 0.20 | ND | | 0.98 |
| **Chloromethane** | **0.75** | **0.50** | **1.5** | | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| Cyclohexane | ND | 0.50 | ND | | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| **Dichlorodifluoromethane** | **0.48** | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Butanal | 2.7 | ppb(v/v) |
| Cyclopropane, ethyl- | 3.0 | ppb(v/v) |
| Propene | 10 | ppb(v/v) |
| Unknown | 16 | ppb(v/v) |
| 1-Propene, 2-methyl- | 41 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 106 | 70 - 130 |
| 4-Bromofluorobenzene | 97 | 70 - 130 |

Qualifiers

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

Lawhon and Associates

Client Sample ID: SU-

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H050116 - 006 | Work Order # | KTLMQ1AA | Matrix.....: | AIR |

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 and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H110000 - 198B | **Work Order #** | KTXQ01AA | **Matrix.....:** | AIR |
| | 08/01/2008 | **Date Received..:** | 08/05/2008 | | |
| **Prep Date.....:** | 08/08/2008 | **Analysis Date...** | 08/08/2008 | | |
| **Prep Batch #.....:** | 8224198 | | | | |
| **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** | **0.040** | **0.50** | **0.14** | **J** | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.19** | **0.50** | **0.67** | **J** | **1.7** |
| Benzene | ND | 0.20 | ND | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | ND | 0.20 | ND | | 0.75 |
| **1,2,4-Trichlorobenzene** | **0.11** | **1.0** | **0.81** | **J** | **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** | **0.034** | **0.20** | **0.13** | **J** | **0.78** |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| Carbon disulfide | ND | 0.50 | ND | | 1.6 |

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H8H110000 - 198B Work Order # KTXQ01AA 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | 70 - 130 |
| Toluene-d8 | 99 | 70 - 130 |
| 4-Bromofluorobenzene | 94 | 70 - 130 |

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H110000 - 198C | Work Order # | KTXQ01AC | Matrix.....: | AIR |
| | 08/01/2008 | Date Received..: | 08/05/2008 | | |
| Prep Date.....: | 08/08/2008 | Analysis Date... | 08/08/2008 | | |
| Prep Batch #.....: | 8224198 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.43 | 8.0 | 7.8 | 97 | 70 - 130 |
| Toluene | 2.50 | 2.17 | 9.4 | 8.2 | 87 | 70 - 130 |
| Trichloroethene | 2.50 | 2.37 | 13 | 13 | 95 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.32 | 12 | 11 | 93 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.54 | 9.9 | 10 | 101 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70 - 130 |
| Toluene-d8 | 100 | 70 - 130 |
| 4-Bromofluorobenzene | 97 | 70 - 130 |

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

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H120000 - 029B | **Work Order #** | KT0LV1AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| | 08/04/2008 | **Date Received..:** | 08/05/2008 |
| **Prep Date.....:** | 08/11/2008 | **Analysis Date...** | 08/11/2008 |
| **Prep Batch #.....:** | 8225029 | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.089** | **0.50** | **0.31** | **J** | **1.7** |
| Benzene | ND | 0.20 | ND | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | ND | 0.20 | ND | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.20 | ND | | 1.5 |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | ND | 1.0 | ND | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| Carbon disulfide | ND | 0.50 | ND | | 1.6 |

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H120000 - 029B **Work Order #** KT0LV1AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70 - 130 |
| Toluene-d8 | 100 | 70 - 130 |
| 4-Bromofluorobenzene | 100 | 70 - 130 |

**Qualifiers**

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H120000 - 029C | Work Order # | KT0LV1AC | Matrix.....: | AIR |
| | 08/04/2008 | Date Received..: | 08/05/2008 | | |
| Prep Date.....: | 08/11/2008 | Analysis Date... | 08/11/2008 | | |
| Prep Batch #.....: | 8225029 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.39 | 8.0 | 7.6 | 96 | 70 - 130 |
| Toluene | 2.50 | 2.00 | 9.4 | 7.5 | 80 | 70 - 130 |
| Trichloroethene | 2.50 | 2.40 | 13 | 13 | 96 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.12 | 12 | 9.7 | 85 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.61 | 9.9 | 10 | 104 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 99 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

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

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

# Sample Receipt Documentation

7970 8-5-08 H8H 050116 № 5127

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


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

2115 Freeman Ave.
Cleveland, OH 44113
Phone (216) 737-0100
Fax (216) 737-0109

10901 Reed Hartman Hwy., Ste. 201
Cincinnati, OH 45242
Phone (513) 936-9233 Fax (513) 936-9266


Sent To: TAL (Lab Name)
VIA: FedEx
Air Bill No.:
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, ⓞ 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): Rachel Secrest

Signature: Rachel Secrest

| Sample I.D. No. | Type | Comp | Grab | Date | ~~Time~~ MIN | Sample Location | Number of Containers | Turn Around/Requirements | Method | Analysis: VOC | Analysis: TIC | Expected Conc. (H,M,L) | Hold | Remarks: SUMA CAN # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SU-STOB010S | | | | 8/1/08 | 1440 | School | 1 | | | X | X | | | 1329 |
| SU-GTOB010S | | | | 8/1/08 | 1440 | Campground | 1 | | | X | X | | | ~~6644~~ 913177 |
| SU-WTOB010S | | | | 8/1/08 | 1440 | Wetland | 1 | | | X | X | | | 6644 |
| SU-CTOB010S | | | | 8/1/08 | 1440 | Cell Tower | 1 | | | X | X | | | 12543 |
| SU-TBTOB010S | | | | 8/1/08 | 1440 | Trip Blank | 1 | | | X | X | | | 92042 |
| 12W SU- | | | | 8/1/08 | 1440 | Office | 1 | | | X | X | | | |

NO CUSTODY SEALS
RECEIVED AT AMBIENT TEMP
BKD 8-5-08
1 BOX FEDX #
866507689689

6 CANS / 6 FLOWS

| Relinquished by: (signature) | Date/Time | Received By: (signature) | Date/Time | Relinquished By: (signature) | Date/Time | Received By: (signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| Rachel Secrest | 8/04 1600 | [illegible] | 8-5-08 09:50 | | | | |
| Relinquished by: (signature) | Date/Time | Received By: (signature) | Date/Time | Relinquished By: (signature) | Date/Time | Received By: (signature) | Date/Time |
| | | | | | | | |

Comments:

Distribution: White - File; Yellow - Lab

## Summary of Results

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

Report Date: 08/29/08
Job Number: E08-08894
Date Received: 8/5/08
Date Analyzed: 08/28/08

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

| Sample Name: | S080108-01A | | S080108-02A | | S080108-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08894-14 | | E08-08894-15 | | E08-08894-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.12 | 0.28 | 0.12 | 0.26 | 0.13 | 0.29 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G080108-01A | | G080108-02A | | G080108-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08894-17 | | E08-08894-18 | | E08-08894-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.20 | 0.45 | 0.12 | 0.27 | 0.18 | 0.42 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



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

Job Number: E08-08894

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

| Sample Name: | W080108-01A | | W080108-02A | | W080108-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08894-20 | | E08-08894-21 | | E08-08894-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | < 0.2 | 0.11 | 0.24 | 0.12 | 0.27 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C080108-01A | | C080108-02A | | C080108-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-08894-23 | | E08-08894-24 | | E08-08894-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.18 | 0.42 | 0.16 | 0.37 | 0.22 | 0.50 | 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 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



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

Job Number: E08-08894

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

Sample Name: 080108A-A
IAL ID: E08-08894-26

| Compound | ug | ug/m3 | Reporting Limits ug |
|---|---|---|---|
| Formaldehyde | < 0.1 | N/A | 0.1 |
| Acetaldehyde | < 0.1 | N/A | 0.1 |
| Acetone | < 0.1 | N/A | 0.1 |
| Acrolein | < 0.1 | N/A | 0.1 |
| Propionaldehyde | < 0.1 | N/A | 0.1 |
| Crotonaldehyde | < 0.1 | N/A | 0.1 |
| Butyraldehyde | < 0.1 | N/A | 0.1 |
| Benzaldehyde | < 0.1 | N/A | 0.1 |
| Isovaleraldehyde | < 0.6 | N/A | 0.6 |
| Valeraldehyde | < 0.2 | N/A | 0.2 |
| o-Tolualdehyde | < 0.2 | N/A | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | N/A | 0.1 |
| Hexaldehyde | < 0.1 | N/A | 0.1 |

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 08/27/08
Job Number: E08-08894
Date Received: 8/4/08
Date Analyzed: 08/26/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S080108-01H | E08-08894-01 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| S080108-02H | E08-08894-02 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| S080108-03H | E08-08894-03 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| G080108-01H | E08-08894-04 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| G080108-02H | E08-08894-05 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| G080108-03H | E08-08894-06 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W080108-01H | E08-08894-07 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W080108-02H | E08-08894-08 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W080108-03H | E08-08894-09 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C080108-01H | E08-08894-10 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C080108-02H | E08-08894-11 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C080108-03H | E08-08894-12 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| 080108A-H | E08-08894-13 | < 0.6 | N/A | < 0.4 | N/A |
| 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: J. Walukiewicz

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX D

## Laboratory Analytical Results from August 7/8, 2008

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8H120235

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

August 22, 2008

# ANALYTICAL METHODS SUMMARY

**H8H120235**

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

H8H120235

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KT1WG | 001 | SU-UO-080508 | 08/05/08 | |
| KT1WN | 002 | SU-DO-080508 | 08/05/08 | |
| KT1WP | 003 | SU-UO-080608 | 08/06/08 | |
| KT1WQ | 004 | SU-DO-080608 | 08/06/08 | |
| KT1WT | 005 | SU-UO-080708 | 08/07/08 | |
| KT1WV | 006 | SU-DO-080708 | 08/07/08 | |
| KT1WX | 007 | SU-ST080708 | 08/07/08 | |
| KT1W4 | 008 | SU-GT080708 | 08/07/08 | |
| KT1W5 | 009 | SU-CT080708 | 08/07/08 | |
| KT1W6 | 010 | SU-WT080708 | 08/07/08 | |
| KT1W7 | 011 | SU-TBT080708 | 08/07/08 | |
| KT1XC | 012 | SU-UO-080808 | 08/08/08 | |
| KT1XG | 013 | SU-DO-080808 | 08/08/08 | |
| KT1XJ | 014 | SU-UO-080908 | 08/09/08 | |
| KT1XM | 015 | SU-DO-080908 | 08/09/08 | |

**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
## H8H120235

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

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

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

**Sample Receipt**

Custody seals were not present.

The containers for all samples were received without a label.

**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.

Sample SU-U0-080908 was received with the canister valve in the open position. The sample was at ambient pressure (0 psi). The sample integrity could have been jeopardized due to changes in ambient pressure after the sample was taken (i.e. ambient air not associated with the sampling event could have been introduced into the canister at any point after the sampling was completed).

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be $\leq$40% difference from the initial calibration. The calibration verification analyzed on 8/20/08 exhibited a %difference of >30% but $\leq$40% for naphthalene and 1,2,4-trichlorobenzene.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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.

**Lawhon and Associates**

**Client Sample ID: SU-ST080708**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H120235 - 007 | **Work Order #** | KT1WX1AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| **Date Sampled...:** | 08/07/2008 | **Date Received..:** | 08/12/2008 |
| **Prep Date.....:** | 08/20/2008 | **Analysis Date...** | 08/20/2008 |
| **Prep Batch #.....:** | 8234092 | | |
| **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** | **9.8** | **5.0** | **23** | | **12** |
| **Ethylbenzene** | **0.11** | **0.20** | **0.50** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.22** | **0.20** | **1.2** | | **1.1** |
| **n-Heptane** | **0.19** | **0.50** | **0.76** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.24** | **0.50** | **0.85** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.12** | **0.50** | **0.57** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.17** | **2.0** | **0.52** | **J** | **6.1** |
| **Methylene chloride** | **0.42** | **0.50** | **1.5** | **J B** | **1.7** |
| **Benzene** | **0.28** | **0.20** | **0.89** | | **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** | **1.9** | **0.20** | **7.0** | | **0.75** |
| **1,2,4-Trichlorobenzene** | **0.10** | **1.0** | **0.77** | **J** | **7.4** |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.075** | **0.20** | **0.57** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.17** | **0.20** | **0.84** | **J** | **0.98** |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.12** | **0.20** | **0.52** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.32** | **0.20** | **1.4** | | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **0.78** | **1.0** | **2.3** | **J** | **2.9** |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.050** | **0.50** | **0.15** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.086** | **0.20** | **0.54** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-ST080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 007 **Work Order #** KT1WX1AA **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** | **0.041** | **0.20** | **0.20** | **J** | **0.98** |
| **Chloromethane** | **0.56** | **0.50** | **1.2** | | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| **Cyclohexane** | **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** | **0.45** | **0.20** | **2.2** | | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,1-Dichloroethene | 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70 - 130 |
| Toluene-d8 | 102 | 70 - 130 |
| 4-Bromofluorobenzene | 98 | 70 - 130 |

**Qualifiers**

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

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

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

**Lawhon and Associates**

**Client Sample ID: SU-GT080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 008 **Work Order #** KT1W41AA **Matrix.....:** AIR

**Date Sampled...:** 08/07/2008 **Date Received..:** 08/12/2008
**Prep Date.....:** 08/20/2008 **Analysis Date...** 08/20/2008
**Prep Batch #.....:** 8234092
**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** | **28** | **5.0** | **67** | | **12** |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| **Trichlorofluoromethane** | **0.22** | **0.20** | **1.2** | | **1.1** |
| **n-Heptane** | **0.37** | **0.50** | **1.5** | **J** | **2.0** |
| **Hexachlorobutadiene** | **0.10** | **1.0** | **1.1** | **J** | **11** |
| **n-Hexane** | **0.20** | **0.50** | **0.71** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.074** | **0.50** | **0.35** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.46** | **2.0** | **1.4** | **J** | **6.1** |
| **Methylene chloride** | **0.42** | **0.50** | **1.4** | **J B** | **1.7** |
| **Benzene** | **0.13** | **0.20** | **0.42** | **J** | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.27** | **0.20** | **1.0** | | **0.75** |
| **1,2,4-Trichlorobenzene** | **0.26** | **1.0** | **1.9** | **J** | **7.4** |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.073** | **0.20** | **0.56** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.070** | **0.20** | **0.34** | **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)** | **3.9** | **1.0** | **12** | | **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** | **0.033** | **0.50** | **0.10** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.074** | **0.20** | **0.47** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-GT080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 008 **Work Order #** KT1W41AA **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** | **0.080** | **0.20** | **0.21** | **J** | **0.53** |
| Chloroform | ND | 0.20 | ND | | 0.98 |
| **Chloromethane** | **0.67** | **0.50** | **1.4** | | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| **Cyclohexane** | **0.097** | **0.50** | **0.33** | **J** | **1.7** |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| **Dichlorodifluoromethane** | **0.45** | **0.20** | **2.2** | | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,1-Dichloroethene | 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Acetaldehyde | 7.8 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 100 | 70 - 130 |

**Qualifiers**

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

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

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

Lawhon and Associates

Client Sample ID: SU-CT080708

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H120235 - 009 | Work Order # | KT1W51AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 08/07/2008 | Date Received..: | 08/12/2008 |
| Prep Date.....: | 08/20/2008 | Analysis Date... | 08/20/2008 |
| Prep Batch #.....: | 8234092 | | |
| 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** | **0.24** | **0.20** | **1.3** | | **1.1** |
| **n-Heptane** | **0.10** | **0.50** | **0.43** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.13** | **0.50** | **0.46** | **J** | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| **tert-Butyl alcohol** | **0.21** | **2.0** | **0.62** | **J** | **6.1** |
| **Methylene chloride** | **0.42** | **0.50** | **1.5** | **J B** | **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** | **0.27** | **0.20** | **1.0** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.075** | **0.20** | **0.58** | **J** | **1.5** |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **1.0** | **1.0** | **3.0** | | **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** | **0.032** | **0.50** | **0.098** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.074** | **0.20** | **0.47** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-CT080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 009 **Work Order #** KT1W51AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| Chlorobenzene | ND | 0.20 | ND | | 0.92 |
| Dibromochloromethane | ND | 0.20 | ND | | 1.7 |
| Chloroethane | ND | 0.20 | ND | | 0.53 |
| Chloroform | ND | 0.20 | ND | | 0.98 |
| **Chloromethane** | **0.56** | **0.50** | **1.1** | | **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** | **0.19** | **0.20** | **1.1** | **J** | **1.2** |
| **Dichlorodifluoromethane** | **0.47** | **0.20** | **2.3** | | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 3.9 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 99 | 70 - 130 |

Qualifiers

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

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

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

**Lawhon and Associates**

**Client Sample ID: SU-WT080708**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H120235 - 010 | **Work Order #** | KT1W61AA | **Matrix.....:** | AIR |

| | | | |
|---|---|---|---|
| **Date Sampled...:** | 08/07/2008 | **Date Received..:** | 08/12/2008 |
| **Prep Date.....:** | 08/20/2008 | **Analysis Date...** | 08/20/2008 |
| **Prep Batch #.....:** | 8234092 | | |
| **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** | **9.5** | **5.0** | **23** | | **12** |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| **Trichlorofluoromethane** | **0.24** | **0.20** | **1.3** | | **1.1** |
| **n-Heptane** | **0.14** | **0.50** | **0.58** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.14** | **0.50** | **0.50** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.043** | **0.50** | **0.20** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.14** | **2.0** | **0.43** | **J** | **6.1** |
| **Methylene chloride** | **0.52** | **0.50** | **1.8** | **B** | **1.7** |
| **Benzene** | **0.14** | **0.20** | **0.46** | **J** | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| **Tetrachloroethene** | **0.046** | **0.20** | **0.31** | **J** | **1.4** |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.37** | **0.20** | **1.4** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.082** | **0.20** | **0.63** | **J** | **1.5** |
| 1,2,4-Trimethylbenzene | 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)** | **1.0** | **1.0** | **3.0** | | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.049** | **0.50** | **0.20** | **J** | **2.0** |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| **Bromomethane** | **0.046** | **0.20** | **0.18** | **J** | **0.78** |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.11** | **0.50** | **0.34** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.081** | **0.20** | **0.51** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-WT080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 010 **Work Order #** KT1W61AA **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** | **0.037** | **0.20** | **0.097** | **J** | **0.53** |
| Chloroform | ND | 0.20 | ND | | 0.98 |
| **Chloromethane** | **0.75** | **0.50** | **1.5** | | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| Cyclohexane | ND | 0.50 | ND | | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| **1,4-Dichlorobenzene** | **0.12** | **0.20** | **0.73** | **J** | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 2.9 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70 - 130 |
| Toluene-d8 | 101 | 70 - 130 |
| 4-Bromofluorobenzene | 98 | 70 - 130 |

**Qualifiers**

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

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

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

Lawhon and Associates

Client Sample ID: SU-TBT080708

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H120235 - 011 | Work Order # | KT1W71AA | Matrix.....: | AIR |

| | | | |
|---|---|---|---|
| Date Sampled...: | 08/07/2008 | Date Received..: | 08/12/2008 |
| Prep Date.....: | 08/18/2008 | Analysis Date... | 08/19/2008 |
| Prep Batch #.....: | 8232124 | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| **Acetone** | **1.4** | **5.0** | **3.4** | **J** | **12** |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| **Trichlorofluoromethane** | **0.029** | **0.20** | **0.17** | **J** | **1.1** |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.39** | **0.50** | **1.4** | **J B** | **1.7** |
| **Benzene** | **0.13** | **0.20** | **0.42** | **J** | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.20** | **0.20** | **0.76** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 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)** | **0.21** | **1.0** | **0.62** | **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** | **0.039** | **0.50** | **0.12** | **J** | **1.6** |

**Lawhon and Associates**

**Client Sample ID: SU-TBT080708**

**GC/MS Volatiles**

**Lot-Sample #** H8H120235 - 011 **Work Order #** KT1W71AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70 - 130 |
| Toluene-d8 | 97 | 70 - 130 |
| 4-Bromofluorobenzene | 97 | 70 - 130 |

Qualifiers

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

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

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

| | | | | | |
|---|---|---|---|---|---|
| **Lot-Sample #** | H8H190000 - 124B | **Work Order #** | KVC3G1AA | **Matrix.....:** | AIR |
| | 08/01/2008 | **Date Received..:** | 08/08/2008 | | |
| **Prep Date.....:** | 08/18/2008 | **Analysis Date...** | 08/18/2008 | | |
| **Prep Batch #.....:** | 8232124 | | | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 | | |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.19** | **0.50** | **0.66** | **J** | 1.7 |
| Benzene | ND | 0.20 | ND | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | ND | 0.20 | ND | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.20 | ND | | 1.5 |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | ND | 1.0 | ND | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| Carbon disulfide | ND | 0.50 | ND | | 1.6 |

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H190000 - 124B **Work Order #** KVC3G1AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Aniline | 2.6 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70 - 130 |
| Toluene-d8 | 96 | 70 - 130 |
| 4-Bromofluorobenzene | 92 | 70 - 130 |

**Qualifiers**

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H190000 - 124C | Work Order # | KVC3G1AC | Matrix.....: | AIR |
| | 08/01/2008 | Date Received..: | 08/08/2008 | | |
| Prep Date.....: | 08/18/2008 | Analysis Date... | 08/18/2008 | | |
| Prep Batch #.....: | 8232124 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 1.95 | 8.0 | 6.2 | 78 | 70 - 130 |
| Toluene | 2.50 | 2.34 | 9.4 | 8.8 | 94 | 70 - 130 |
| Trichloroethene | 2.50 | 1.85 | 13 | 9.9 | 74 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.28 | 12 | 10 | 91 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 1.99 | 9.9 | 7.9 | 80 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70 - 130 |
| Toluene-d8 | 100 | 70 - 130 |
| 4-Bromofluorobenzene | 96 | 70 - 130 |

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

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H210000 - 092B **Work Order #** KVHJ71AA **Matrix.....:** AIR

| | | | |
|---|---|---|---|
| | 08/08/2008 | **Date Received..:** | 08/09/2008 |
| **Prep Date.....:** | 08/20/2008 | **Analysis Date...** | 08/20/2008 |
| **Prep Batch #.....:** | 8234092 | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 |

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

**Lawhon and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H210000 - 092B **Work Order #** KVHJ71AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70 - 130 |
| Toluene-d8 | 103 | 70 - 130 |
| 4-Bromofluorobenzene | 97 | 70 - 130 |

Qualifiers

J Estimated result. Result is less than RL.

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

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

**Lawhon and Associates**

**Client Sample ID: CHECK SAMPLE**

**GC/MS Volatiles**

**Lot-Sample #** H8H210000 - 092C **Work Order #** KVHJ71AC **Matrix.....:** AIR

| | | | |
|---|---|---|---|
| | 08/08/2008 | **Date Received..:** | 08/09/2008 |
| **Prep Date.....:** | 08/20/2008 | **Analysis Date...** | 08/20/2008 |
| **Prep Batch #.....:** | 8234092 | | |
| **Dilution Factor.:** | 1 | **Method.....:** | TO-15 |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.35 | 8.0 | 7.5 | 94 | 70 - 130 |
| Toluene | 2.50 | 2.44 | 9.4 | 9.2 | 97 | 70 - 130 |
| Trichloroethene | 2.50 | 2.64 | 13 | 14 | 106 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.48 | 12 | 11 | 99 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.57 | 9.9 | 10 | 103 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70 - 130 |
| Toluene-d8 | 98 | 70 - 130 |
| 4-Bromofluorobenzene | 98 | 70 - 130 |

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

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

# Sample Receipt Documentation

H8H120235

№ 8141


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

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

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


Sent To: TAL (Lab Name)
VIA: Fed Ex
Air Bill No.:
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): TREVOR BERGER

Signature:

| Sample I.D. No. | Type | Type | Type | Date | Time | Sample Location | Number of Containers | Turn Around/Requirements | Analysis | Method | | | | | | | | | | | | | Expected Conc. (H,M,L) | Hold | Remarks: Summa # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SU-ST080708 | | | | 8/7/08 | 1440 | School | 1 | | X | X | | | | | | | | | | | | | | | ✓ 1134 x2 |
| SU-GT080708 | | | | 8/7/08 | 1440 | Campground | 1 | | X | X | | | | | | | | | | | | | | | ✓ 7469 x2 |
| SU-CT080708 | | | | 8/7/08 | 1440 | Cell Tower | 1 | | X | X | | | | | | | | | | | | | | | 6656 ERR |
| SU-WT080708 | | | | 8/7/08 | 1440 | Wetland | 1 | | X | X | | | | | | | | | | | | | | | ✓ 1143 x2 |
| SU-TBT080708 | | | | 8/7/08 | | Trip Blank | 1 | | X | X | | | | | | | | | | | | | | | ✓ 1382 x2 |

| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
|---|---|---|---|---|---|---|---|
| | 8/8/08 17:51 | | | | | | |
| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
| | | | | | | | |

Comments:

Distributor: White - File; Yellow - Lab

## Summary of Results

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

Report Date: 09/04/08
Job Number: E08-09210
Date Received: 8/11/08
Date Analyzed: 09/03/08

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

| Sample Name: | S080708-01A | | S080708-02A | | S080708-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09210-14 | | E08-09210-15 | | E08-09210-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.17 | 0.41 | 1.3 | 3.4 | 2.9 | 5.6 | 0.1 |
| Acetaldehyde | 0.10 | 0.25 | 0.38 | 1.0 | 0.66 | 1.3 | 0.1 |
| Acetone | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Acrolein | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Propionaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.19 | 0.36 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.5 | < 0.6 | < 1.5 | < 0.6 | < 1.2 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.4 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.3 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G080708-01A | | G080708-02A | | G080708-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09210-17 | | E08-09210-18 | | E08-09210-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 1.1 | 2.5 | 1.8 | 4.4 | 6.0 | 12 | 0.1 |
| Acetaldehyde | 0.56 | 1.3 | 0.60 | 1.5 | 1.5 | 3.1 | 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 | 0.10 | 0.24 | < 0.1 | < 0.2 | 0.36 | 0.72 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | 0.15 | 0.35 | 0.20 | 0.50 | 0.74 | 1.5 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | 0.32 | 0.75 | 0.30 | 0.74 | 1.4 | 2.8 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.5 | < 0.6 | < 1.2 | 0.6 |
| Valeraldehyde | 0.42 | 0.99 | 0.44 | 1.1 | 2.0 | 4.0 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 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 | 1.1 | 2.6 | 1.2 | 3.0 | 4.8 | 9.7 | 0.1 |



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

Job Number: E08-09210

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

| Sample Name: | W080708-01A | | W080708-02A | | W080708-03A * | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09210-20 | | E08-09210-21 | | E08-09210-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.84 | 1.9 | 2.8 | 6.9 | 0.11 | 0.23 | 0.1 |
| Acetaldehyde | 0.44 | 1.0 | 1.2 | 2.9 | < 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 | 0.28 | 0.69 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | 0.12 | 0.29 | 0.44 | 1.1 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | 0.15 | 0.34 | 0.44 | 1.1 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.5 | < 0.6 | < 1.2 | 0.6 |
| Valeraldehyde | 0.30 | 0.69 | 1.0 | 2.6 | < 0.2 | < 0.4 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 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 | 0.74 | 1.7 | 2.3 | 5.8 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | C080708-01A | | C080708-02A | | C080708-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09210-23 | | E08-09210-24 | | E08-09210-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.68 | 4.9 | 0.50 | 1.2 | 5.0 | 14 | 0.1 |
| Acetaldehyde | 0.28 | 2.0 | 0.13 | 0.32 | 1.0 | 2.8 | 0.1 |
| Acetone | < 0.1 | < 0.7 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Acrolein | < 0.1 | < 0.7 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Propionaldehyde | < 0.1 | < 0.7 | < 0.1 | < 0.2 | 0.22 | 0.59 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.7 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Butyraldehyde | < 0.1 | < 0.7 | < 0.1 | < 0.2 | 0.28 | 0.76 | 0.1 |
| Benzaldehyde | 0.11 | 0.79 | < 0.1 | < 0.2 | 0.78 | 2.1 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 4.3 | < 0.6 | < 1.5 | < 0.6 | < 1.6 | 0.6 |
| Valeraldehyde | < 0.2 | < 1.4 | < 0.2 | < 0.5 | 0.54 | 1.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 1.4 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.7 | < 0.1 | < 0.2 | < 0.1 | < 0.3 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.7 | < 0.1 | < 0.2 | 1.4 | 3.8 | 0.1 |



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

Job Number: E08-09210

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

Sample Name: 080708A-A
IAL ID: E08-09210-26

| Compound | ug | ug/m3 | Reporting Limits ug |
|---|---|---|---|
| Formaldehyde | < 0.1 | N/A | 0.1 |
| Acetaldehyde | < 0.1 | N/A | 0.1 |
| Acetone | < 0.1 | N/A | 0.1 |
| Acrolein | < 0.1 | N/A | 0.1 |
| Propionaldehyde | < 0.1 | N/A | 0.1 |
| Crotonaldehyde | < 0.1 | N/A | 0.1 |
| Butyraldehyde | < 0.1 | N/A | 0.1 |
| Benzaldehyde | < 0.1 | N/A | 0.1 |
| Isovaleraldehyde | < 0.6 | N/A | 0.6 |
| Valeraldehyde | < 0.2 | N/A | 0.2 |
| o-Tolualdehyde | < 0.2 | N/A | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | N/A | 0.1 |
| Hexaldehyde | < 0.1 | N/A | 0.1 |

* Sample E08-09210-22: The front half of the sorbent tube was missing upon receipt at the lab.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 08/27/08
Job Number: E08-09210
Date Received: 8/11/08
Date Analyzed: 08/27/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S080708-01H | E08-09210-01 | 0.95 | 2.3 | < 0.4 | < 0.9 |
| S080708-02H | E08-09210-02 | 0.89 | 2.3 | < 0.4 | < 1.0 |
| S080708-03H | E08-09210-03 | 0.68 | 1.3 | < 0.4 | < 0.7 |
| G080708-01H | E08-09210-04 | 1.2 | 2.7 | < 0.4 | < 0.9 |
| G080708-02H | E08-09210-05 | 1.0 | 2.5 | < 0.4 | < 1.0 |
| G080708-03H | E08-09210-06 | 1.6 | 3.2 | < 0.4 | < 0.8 |
| W080708-01H | E08-09210-07 | 0.74 | 1.7 | < 0.4 | < 0.9 |
| W080708-02H | E08-09210-08 | 1.9 | 4.7 | 1.6 | 4.0 |
| W080708-03H | E08-09210-09 | 1.6 | 3.2 | < 0.4 | < 0.8 |
| C080708-01H | E08-09210-10 | 0.74 | 5.3 | < 0.4 | < 3 |
| C080708-02H | E08-09210-11 | < 0.6 | < 1.5 | < 0.4 | < 0.9 |
| C080708-03H | E08-09210-12 | 1.7 | 4.5 | < 0.4 | < 1.0 |
| 080708A-H | E08-09210-13 | 0.68 | N/A | < 0.4 | N/A |
| 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: J. Walukiewicz

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX E

## Laboratory Analytical Results from August 13/14, 2008

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8H180146

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

August 28, 2008

# ANALYTICAL METHODS SUMMARY

**H8H180146**

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**H8H180146**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KVA2W | 001 | SU-U0081208 | 08/12/08 | |
| KVA28 | 002 | SU-D0081208 | 08/12/08 | |
| KVA3E | 003 | SU-U0081308 | 08/13/08 | |
| KVA3H | 004 | SU-D0081308 | 08/13/08 | |
| KVA3J | 005 | SU-U0081108 | 08/11/08 | |
| KVA3K | 006 | SU-U0081108 | 08/11/08 | |
| KVA3L | 007 | SU-ST081308 | 08/13/08 | |
| KVA3P | 008 | SU-GT081308 | 08/13/08 | |
| KVA3R | 009 | SU-CT081308 | 08/13/08 | |
| KVA3T | 010 | SU-WT081308 | 08/13/08 | |
| KVA30 | 011 | SU-TBT081308 | 08/13/08 | |

**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
## H8H180146

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

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

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

**Sample Receipt**

Custody seals were not present.

The containers for all samples were received without a label.

**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.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 08/22/08 exhibited a %difference of >40% for 1,2-dichloro-1,1,2,2-tetrafluoroethane. Since the recovery was high and 1,2-dichloro-1,1,2,2-tetrafluoroethane was not detected above the reporting limit in the associated samples there is no impact on the data.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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 and Associates**

**Client Sample ID: SU-ST081308**

**GC/MS Volatiles**

**Lot-Sample #** H8H180146 - 007 **Work Order #** KVA3L1AA **Matrix.....:** AIR

**Date Sampled...:** 08/13/2008 **Date Received..:** 08/18/2008
**Prep Date.....:** 08/22/2008 **Analysis Date...** 08/22/2008
**Prep Batch #.....:** 8239057
**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** | **8.6** | **5.0** | **20** | | **12** |
| **Ethylbenzene** | **0.11** | **0.20** | **0.47** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.34** | **0.20** | **1.9** | | **1.1** |
| **n-Heptane** | **0.39** | **0.50** | **1.6** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.32** | **0.50** | **1.1** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.079** | **0.50** | **0.37** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.20** | **2.0** | **0.59** | **J** | **6.1** |
| **Methylene chloride** | **0.29** | **0.50** | **1.0** | **J B** | **1.7** |
| **Benzene** | **0.27** | **0.20** | **0.87** | **B** | **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** | **0.60** | **0.20** | **2.2** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| **Trichloroethene** | **0.14** | **0.20** | **0.74** | **J** | **1.1** |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.10** | **0.20** | **0.78** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.18** | **0.20** | **0.89** | **J** | **0.98** |
| **1,3,5-Trimethylbenzene** | **0.073** | **0.20** | **0.36** | **J** | **0.98** |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.12** | **0.20** | **0.53** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.32** | **0.20** | **1.4** | | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **1.3** | **1.0** | **4.0** | | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.12** | **0.50** | **0.50** | **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** | **0.074** | **0.50** | **0.23** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.11** | **0.20** | **0.70** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-ST081308**

**GC/MS Volatiles**

**Lot-Sample #** H8H180146 - 007 **Work Order #** KVA3L1AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 0.20 | ND | 0.92 |
| Dibromochloromethane | ND | 0.20 | ND | 1.7 |
| Chloroethane | ND | 0.20 | ND | 0.53 |
| Chloroform | ND | 0.20 | ND | 0.98 |
| **Chloromethane** | **0.72** | **0.50** | **1.5** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | 2.1 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| **Dichlorodifluoromethane** | **0.71** | **0.20** | **3.5** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 2.6 | ppb(v/v) |
| Unknown | 2.8 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | 70 - 130 |
| Toluene-d8 | 90 | 70 - 130 |
| 4-Bromofluorobenzene | 89 | 70 - 130 |

**Qualifiers**

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

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

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

Lawhon and Associates

Client Sample ID: SU-GT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 008 Work Order # KVA3P1AA Matrix.....: AIR

Date Sampled...: 08/13/2008 Date Received..: 08/18/2008
Prep Date.....: 08/22/2008 Analysis Date... 08/22/2008
Prep Batch #.....: 8239057
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** | **0.28** | **0.20** | **1.6** | | **1.1** |
| **n-Heptane** | **0.28** | **0.50** | **1.1** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.20** | **0.50** | **0.72** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.045** | **0.50** | **0.21** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.23** | **2.0** | **0.71** | **J** | **6.1** |
| **Methylene chloride** | **0.33** | **0.50** | **1.2** | **J B** | **1.7** |
| **Benzene** | **0.26** | **0.20** | **0.82** | **B** | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.34** | **0.20** | **1.3** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.084** | **0.20** | **0.64** | **J** | **1.5** |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.066** | **0.20** | **0.29** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.15** | **0.20** | **0.67** | **J** | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **0.81** | **1.0** | **2.4** | **J** | **2.9** |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.096** | **0.50** | **0.30** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.099** | **0.20** | **0.62** | **J** | **1.3** |

Lawhon and Associates

Client Sample ID: SU-GT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 008 Work Order # KVA3P1AA 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 | 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** | **0.57** | **0.20** | **2.8** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | 70 - 130 |
| Toluene-d8 | 94 | 70 - 130 |
| 4-Bromofluorobenzene | 89 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-CT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 009 Work Order # KVA3R1AA Matrix.....: AIR

Date Sampled...: 08/13/2008 Date Received..: 08/18/2008
Prep Date.....: 08/22/2008 Analysis Date... 08/23/2008
Prep Batch #.....: 8239057
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** | **7.8** | **5.0** | **18** | | **12** |
| **Ethylbenzene** | **0.086** | **0.20** | **0.37** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.29** | **0.20** | **1.6** | | **1.1** |
| **n-Heptane** | **0.26** | **0.50** | **1.1** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.22** | **0.50** | **0.76** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.040** | **0.50** | **0.19** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.18** | **2.0** | **0.55** | **J** | **6.1** |
| **Methylene chloride** | **0.48** | **0.50** | **1.7** | **J B** | **1.7** |
| **Benzene** | **0.33** | **0.20** | **1.0** | **B** | **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** | **0.14** | **1.0** | **0.42** | **J** | **2.9** |
| **Toluene** | **0.42** | **0.20** | **1.6** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.089** | **0.20** | **0.68** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.067** | **0.20** | **0.33** | **J** | **0.98** |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.073** | **0.20** | **0.32** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.19** | **0.20** | **0.83** | **J** | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **0.91** | **1.0** | **2.7** | **J** | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.053** | **0.50** | **0.22** | **J** | **2.0** |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.053** | **0.50** | **0.16** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.10** | **0.20** | **0.65** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-CT081308**

**GC/MS Volatiles**

**Lot-Sample #** H8H180146 - 009 **Work Order #** KVA3R1AA **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 | 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** | **0.56** | **0.20** | **2.8** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 2.6 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | 70 - 130 |
| Toluene-d8 | 94 | 70 - 130 |
| 4-Bromofluorobenzene | 91 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-WT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 010 Work Order # KVA3T1AA Matrix.....: AIR

Date Sampled...: 08/13/2008 Date Received..: 08/18/2008
Prep Date.....: 08/22/2008 Analysis Date... 08/23/2008
Prep Batch #.....: 8239057
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** | **0.077** | **0.20** | **0.34** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.38** | **0.20** | **2.1** | | **1.1** |
| **n-Heptane** | **0.37** | **0.50** | **1.5** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.24** | **0.50** | **0.85** | **J** | **1.8** |
| **2,2,4-Trimethylpentane** | **0.045** | **0.50** | **0.21** | **J** | **2.3** |
| **tert-Butyl alcohol** | **0.31** | **2.0** | **0.95** | **J** | **6.1** |
| **Methylene chloride** | **0.37** | **0.50** | **1.3** | **J B** | **1.7** |
| **Benzene** | **0.23** | **0.20** | **0.72** | **B** | **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** | **0.37** | **0.20** | **1.4** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| **Trichloroethene** | **0.057** | **0.20** | **0.31** | **J** | **1.1** |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.12** | **0.20** | **0.92** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.17** | **0.20** | **0.83** | **J** | **0.98** |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.067** | **0.20** | **0.29** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.21** | **0.20** | **0.92** | | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **1.1** | **1.0** | **3.1** | | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.20** | **0.50** | **0.84** | **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** | **0.078** | **0.50** | **0.24** | **J** | **1.6** |
| **Carbon tetrachloride** | **0.11** | **0.20** | **0.71** | **J** | **1.3** |

Lawhon and Associates

Client Sample ID: SU-WT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 010 Work Order # KVA3T1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 0.20 | ND | 0.92 |
| Dibromochloromethane | ND | 0.20 | ND | 1.7 |
| Chloroethane | ND | 0.20 | ND | 0.53 |
| Chloroform | ND | 0.20 | ND | 0.98 |
| **Chloromethane** | **0.67** | **0.50** | **1.4** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | 2.1 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| **Dichlorodifluoromethane** | **0.73** | **0.20** | **3.6** | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Oxirane, tridecyl- | 74 | ppb(v/v) |
| Unknown | 4.1 | ppb(v/v) |
| Unknown | 3.2 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | 70 - 130 |
| Toluene-d8 | 92 | 70 - 130 |
| 4-Bromofluorobenzene | 87 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-TBT081308 co-located at Cell Tower

GC/MS Volatiles

Lot-Sample # H8H180146 - 011 Work Order # KVA301AA Matrix.....: AIR

Date Sampled...: 08/13/2008 Date Received..: 08/18/2008
Prep Date.....: 08/22/2008 Analysis Date... 08/22/2008
Prep Batch #.....: 8239057
Dilution Factor.: 1 Method.....: TO-15

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | 12 | 5.0 | 29 | | 12 |
| Ethylbenzene | 0.090 | 0.20 | 0.39 | J | 0.87 |
| Trichlorofluoromethane | 0.35 | 0.20 | 2.0 | | 1.1 |
| n-Heptane | 0.28 | 0.50 | 1.1 | J | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | 0.19 | 0.50 | 0.67 | J | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | 0.38 | 2.0 | 1.1 | J | 6.1 |
| Methylene chloride | 0.40 | 0.50 | 1.4 | J B | 1.7 |
| Benzene | 0.42 | 0.20 | 1.3 | B | 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 | 0.25 | 1.0 | 0.74 | J | 2.9 |
| Toluene | 0.39 | 0.20 | 1.5 | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.11 | 0.20 | 0.82 | J | 1.5 |
| 1,2,4-Trimethylbenzene | 0.074 | 0.20 | 0.36 | J | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | 0.072 | 0.20 | 0.31 | J | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | 0.27 | 0.20 | 1.2 | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | 1.3 | 1.0 | 3.8 | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | 0.36 | 0.50 | 1.5 | J | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | 0.033 | 0.20 | 0.13 | J | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| Carbon disulfide | 0.085 | 0.50 | 0.27 | J | 1.6 |
| Carbon tetrachloride | 0.11 | 0.20 | 0.70 | J | 1.3 |

Lawhon and Associates

Client Sample ID: SU-TBT081308

GC/MS Volatiles

Lot-Sample # H8H180146 - 011 Work Order # KVA301AA 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** | **0.75** | **0.50** | **1.5** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | 2.1 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| **Dichlorodifluoromethane** | **0.66** | **0.20** | **3.3** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 12 | ppb(v/v) |
| Unknown | 2.6 | ppb(v/v) |
| Unknown | 2.5 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 92 | 70 - 130 |
| Toluene-d8 | 90 | 70 - 130 |
| 4-Bromofluorobenzene | 93 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H260000 - 057B | Work Order # | KVQ4R1AA | Matrix.....: | AIR |
| | 08/12/2008 | Date Received..: | 08/18/2008 | | |
| Prep Date.....: | 08/22/2008 | Analysis Date... | 08/22/2008 | | |
| Prep Batch #.....: | 8239057 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.22** | **0.50** | **0.75** | **J** | **1.7** |
| **Benzene** | **0.062** | **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 | 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 and Associates**

**Client Sample ID: INTRA-LAB BLANK**

**GC/MS Volatiles**

**Lot-Sample #** H8H260000 - 057B **Work Order #** KVQ4R1AA **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 91 | 70 - 130 |
| Toluene-d8 | 91 | 70 - 130 |
| 4-Bromofluorobenzene | 90 | 70 - 130 |

**Qualifiers**

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H8H260000 - 057C Work Order # KVQ4R1AC Matrix.....: AIR

| | | | |
|---|---|---|---|
| | 08/12/2008 | Date Received..: | 08/18/2008 |
| Prep Date.....: | 08/22/2008 | Analysis Date... | 08/22/2008 |
| Prep Batch #.....: | 8239057 | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.00 | 8.0 | 6.4 | 80 | 70 - 130 |
| Toluene | 2.50 | 2.41 | 9.4 | 9.1 | 97 | 70 - 130 |
| Trichloroethene | 2.50 | 2.42 | 13 | 13 | 97 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.61 | 12 | 12 | 105 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.25 | 9.9 | 8.9 | 90 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70 - 130 |
| Toluene-d8 | 93 | 70 - 130 |
| 4-Bromofluorobenzene | 95 | 70 - 130 |

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

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

# Sample Receipt Documentation

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

~~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~~
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H8H180146

№ 8143

Sent To: TAL (Lab Name)
VIA: Fed Ex
Air Bill No.:
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 | Sample Location | Number of Containers | Turn Around/Requirements | Method | Analysis VOC | Analysis TIC | Expected Conc. (H,M,L) | Hold | Remarks: Summa Can # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Su-St081308 | | | | 8/13/08 | 1440 | School | 1 | | | X | X | | | 04329 |
| Su-Ct081308 | | | | 8/13/08 | 1440 | Campground | 1 | | | X | X | | | 12179 |
| Su-Ct081308 | | | | 8/13/08 | 1440 | Cell Tower | 1 | | | X | X | | | 6642 |
| Su-Wt081308 | | | | 8/13/08 | 1440 | Wetland | 1 | | | X | X | | | 0151 |
| SU-TBT081308 | | | | 8/13/08 | 1440 | ~~Trip Blank~~ | 1 | | | X | X | | | 04223 |
| | | | | | | co-located at cell tower | | | | | | | | |

| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
|---|---|---|---|---|---|---|---|
| [signature] | 8/15/08 | Ryan Henry | 8/18/08 0930 | | | | |
| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
| | | | | | | | |

Comments:

Distributor: White - File; Yellow - Lab

## Summary of Results

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

Report Date: 09/05/08
Job Number: E08-09464
Date Received: 8/18/08
Date Analyzed: 09/04/08

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

| Sample Name: | S081308-01A * | | S081308-02A | | S081308-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09464-14 | | E08-09464-15 | | E08-09464-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.72 | 1.6 | 0.78 | 1.8 | 0.88 | 2.0 | 0.1 |
| Acetaldehyde | 0.36 | 0.82 | 0.32 | 0.72 | 0.34 | 0.77 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | 0.26 | 0.59 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G081308-01A | | G081308-02A | | G081308-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09464-17 | | E08-09464-18 | | E08-09464-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.24 | 0.54 | 0.66 | 1.5 | 0.34 | 0.77 | 0.1 |
| Acetaldehyde | 0.14 | 0.32 | 0.46 | 1.0 | 0.30 | 0.68 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc. Job Number: E08-09464
Jobsite: Countywide
Project: #07-0082

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

| Sample Name: | C081308-01A | | C081308-02A | | C081308-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09464-20 | | E08-09464-21 | | E08-09464-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 2.0 | 4.4 | 1.3 | 2.9 | 0.80 | 1.8 | 0.1 |
| Acetaldehyde | 0.50 | 1.1 | 0.42 | 1.0 | 0.16 | 0.35 | 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 | 0.15 | 0.34 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | 0.28 | 0.63 | 0.20 | 0.45 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | 0.10 | 0.23 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | W081308-01A | | W081308-02A | | W081308-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09464-23 | | E08-09464-24 | | E08-09464-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 2.8 | 6.3 | 0.16 | 0.35 | 1.9 | 4.3 | 0.1 |
| Acetaldehyde | 0.88 | 2.0 | 0.19 | 0.42 | 2.2 | 5.0 | 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 | 0.26 | 0.59 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | 0.32 | 0.72 | < 0.1 | < 0.2 | 0.32 | 0.72 | 0.1 |
| Benzaldehyde | 0.28 | 0.63 | < 0.1 | < 0.2 | 0.26 | 0.59 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | 0.64 | 1.4 | < 0.2 | < 0.5 | 0.50 | 1.1 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | 1.5 | 3.5 | < 0.1 | < 0.2 | 1.2 | 2.8 | 0.1 |



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

Job Number: E08-09464

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

| Sample Name: | 081308A-A | | Reporting Limits |
|---|---|---|---|
| IAL ID: | E08-09464-26 | | |
| Compound | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | N/A | 0.1 |
| Acetaldehyde | < 0.1 | N/A | 0.1 |
| Acetone | < 0.1 | N/A | 0.1 |
| Acrolein | < 0.1 | N/A | 0.1 |
| Propionaldehyde | < 0.1 | N/A | 0.1 |
| Crotonaldehyde | < 0.1 | N/A | 0.1 |
| Butyraldehyde | < 0.1 | N/A | 0.1 |
| Benzaldehyde | < 0.1 | N/A | 0.1 |
| Isovaleraldehyde | < 0.6 | N/A | 0.6 |
| Valeraldehyde | < 0.2 | N/A | 0.2 |
| o-Tolualdehyde | < 0.2 | N/A | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | N/A | 0.1 |
| Hexaldehyde | < 0.1 | N/A | 0.1 |

* Denotes breakthrough from the front to the back of the sorbent tube.

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 08/28/08
Job Number: E08-09464
Date Received: 8/18/08
Date Analyzed: 08/28/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S081308-01H | E08-09464-01 | 1.0 | 2.3 | < 0.4 | < 0.9 |
| S081308-02H | E08-09464-02 | 0.74 | 1.7 | < 0.4 | < 0.9 |
| S081308-03H | E08-09464-03 | 0.74 | 1.7 | < 0.4 | < 0.9 |
| G081308-01H | E08-09464-04 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| G081308-02H | E08-09464-05 | 0.84 | 1.9 | < 0.4 | < 0.9 |
| G081308-03H | E08-09464-06 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C081308-01H | E08-09464-07 | 0.68 | 1.5 | < 0.4 | < 0.9 |
| C081308-02H | E08-09464-08 | 1.1 | 2.4 | < 0.4 | < 0.9 |
| C081308-03H | E08-09464-09 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W081308-01H | E08-09464-10 | 0.89 | 2.0 | < 0.4 | < 0.9 |
| W081308-02H | E08-09464-11 | 0.68 | 1.5 | < 0.4 | < 0.9 |
| W081308-03H | E08-09464-12 | 1.1 | 2.4 | < 0.4 | < 0.9 |
| 081308A-H | E08-09464-13 | 0.84 | N/A | < 0.4 | N/A |
| 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: J. Walukiewicz

# Countywide Recycling & Disposal Facility
## Ambient Air Monitoring
## Monthly Report #16

September 20, 2008

# APPENDIX F

## Laboratory Analytical Results from August 19/20, 2008

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

PROJECT NO. 07-0082-SA2

Countywide

Lot #: H8H220248

Shawn Ansbro

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

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

August 29, 2008

# ANALYTICAL METHODS SUMMARY

H8H220248

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

**References:**

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

# SAMPLE SUMMARY

**H8H220248**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| KVMH7 | 001 | SU-UP081808 | 08/18/08 | |
| KVMJQ | 002 | SU-DN081808 | 08/18/08 | |
| KVMJV | 003 | SU-UP081808 | 08/18/08 | |
| KVMJ3 | 004 | SU-UP081908 | 08/19/08 | |
| KVMJ8 | 005 | SU-DN081908 | 08/19/08 | |
| KVMKA | 006 | SU-ST081908 | 08/19/08 | |
| KVMKF | 007 | SU-GT081908 | 08/19/08 | |
| KVMKK | 008 | SU-CT081908 | 08/19/08 | |
| KVMKR | 009 | SU-WT081908 | 08/19/08 | |
| KVMKW | 010 | SU-TB081908 | 08/19/08 | |

**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
## H8H220248

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

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

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

**Sample Receipt**

Custody seals were not present.

The containers for all samples were received without a label.

**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.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 08/26/08 (LCS for batch 8240034) exhibited a %difference of >30% but ≤40% for methylene chloride, trichlorofluoromethane and dibromochloromethane. The standard operating procedure allows for two nonpolar analyte recoveries between 60% and 140% and two polar analyte recoveries between 45% and 155% for LCS. Since the recovery was high for dibromochloromethane and this compound was not detected above the reporting limit in the samples there is no impact on the data.

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #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 and Associates

Client Sample ID: SU-ST081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 006 Work Order # KVMKA1AA Matrix.....: AIR

Date Sampled...: 08/19/2008 Date Received..: 08/22/2008
Prep Date.....: 08/26/2008 Analysis Date... 08/26/2008
Prep Batch #.....: 8240034
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 | 22 | 5.0 | 52 | | 12 |
| Ethylbenzene | 0.12 | 0.20 | 0.52 | J | 0.87 |
| Trichlorofluoromethane | 0.32 | 0.20 | 1.8 | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | 0.30 | 0.50 | 1.1 | J | 1.8 |
| 2,2,4-Trimethylpentane | 0.066 | 0.50 | 0.31 | J | 2.3 |
| tert-Butyl alcohol | 0.66 | 2.0 | 2.0 | J | 6.1 |
| Methylene chloride | 0.40 | 0.50 | 1.4 | J B | 1.7 |
| Benzene | 0.49 | 0.20 | 1.6 | | 0.64 |
| Styrene | 0.10 | 0.20 | 0.43 | J | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | 0.16 | 0.20 | 1.1 | J | 1.4 |
| Tetrahydrofuran | 0.23 | 1.0 | 0.69 | J | 2.9 |
| Toluene | 2.2 | 0.20 | 8.3 | | 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 | 0.067 | 0.20 | 0.36 | J | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.094 | 0.20 | 0.72 | J | 1.5 |
| 1,2,4-Trimethylbenzene | 0.19 | 0.20 | 0.93 | J | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | 0.13 | 0.20 | 0.57 | J | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | 0.33 | 0.20 | 1.4 | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | 2.4 | 1.0 | 7.1 | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | 0.36 | 0.50 | 1.5 | 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 | 0.55 | 0.50 | 1.7 | B | 1.6 |
| Carbon tetrachloride | 0.12 | 0.20 | 0.76 | J | 1.3 |

**Lawhon and Associates**

**Client Sample ID: SU-ST081908**

**GC/MS Volatiles**

**Lot-Sample #** H8H220248 - 006 **Work Order #** KVMKA1AA **Matrix.....:** AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 0.20 | ND | 0.92 |
| Dibromochloromethane | ND | 0.20 | ND | 1.7 |
| Chloroethane | ND | 0.20 | ND | 0.53 |
| Chloroform | ND | 0.20 | ND | 0.98 |
| **Chloromethane** | **0.60** | **0.50** | **1.2** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | 2.1 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| **Dichlorodifluoromethane** | **0.66** | **0.20** | **3.3** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 2.7 | ppb(v/v) |
| Unknown | 4.4 | ppb(v/v) |
| Unknown | 4.8 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 86 | 70 - 130 |
| Toluene-d8 | 88 | 70 - 130 |
| 4-Bromofluorobenzene | 90 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-GT081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 007 Work Order # KVMKF1AA Matrix.....: AIR

Date Sampled...: 08/19/2008 Date Received..: 08/22/2008
Prep Date.....: 08/26/2008 Analysis Date... 08/26/2008
Prep Batch #.....: 8240034
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 | 0.035 | 0.20 | 0.24 | J | 1.4 |
| Acetone | 8.2 | 5.0 | 19 | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | 0.32 | 0.20 | 1.8 | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | 0.21 | 0.50 | 0.74 | J | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | 0.22 | 2.0 | 0.66 | J | 6.1 |
| Methylene chloride | 0.39 | 0.50 | 1.4 | J B | 1.7 |
| Benzene | 0.28 | 0.20 | 0.89 | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | 0.51 | 0.20 | 1.9 | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.10 | 0.20 | 0.78 | J | 1.5 |
| 1,2,4-Trimethylbenzene | 0.11 | 0.20 | 0.53 | J | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | 0.078 | 0.20 | 0.34 | J | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | 0.23 | 0.20 | 0.99 | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | 1.0 | 1.0 | 2.9 | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | 0.15 | 0.50 | 0.63 | 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 | 0.087 | 0.50 | 0.27 | J B | 1.6 |
| Carbon tetrachloride | 0.11 | 0.20 | 0.71 | J | 1.3 |

Lawhon and Associates

Client Sample ID: SU-GT081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 007 Work Order # KVMKF1AA 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** | **0.40** | **0.50** | **0.82** | **J** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| Cyclohexane | ND | 0.50 | ND | | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| **Dichlorodifluoromethane** | **0.66** | **0.20** | **3.3** | | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 2.6 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 87 | 70 - 130 |
| Toluene-d8 | 88 | 70 - 130 |
| 4-Bromofluorobenzene | 89 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-CT081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 008 Work Order # KVMKK1AA Matrix.....: AIR

Date Sampled...: 08/19/2008 Date Received..: 08/22/2008
Prep Date.....: 08/26/2008 Analysis Date... 08/26/2008
Prep Batch #.....: 8240034
Dilution Factor.: 1 Method.....: TO-15

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| **Acetone** | **4.1** | **5.0** | **9.9** | **J** | **12** |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| **Trichlorofluoromethane** | **0.36** | **0.20** | **2.0** | | **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** | **0.17** | **2.0** | **0.51** | **J** | **6.1** |
| **Methylene chloride** | **0.37** | **0.50** | **1.3** | **J B** | **1.7** |
| **Benzene** | **0.20** | **0.20** | **0.65** | | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| **Tetrahydrofuran** | **0.35** | **1.0** | **1.0** | **J** | **2.9** |
| **Toluene** | **0.098** | **0.20** | **0.37** | **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** | **0.054** | **0.20** | **0.29** | **J** | **1.1** |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.11** | **0.20** | **0.87** | **J** | **1.5** |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **0.35** | **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 | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.10** | **0.50** | **0.32** | **J B** | **1.6** |
| **Carbon tetrachloride** | **0.11** | **0.20** | **0.67** | **J** | **1.3** |

Lawhon and Associates

Client Sample ID: SU-CT081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 008 Work Order # KVMKK1AA 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** | **0.41** | **0.50** | **0.86** | **J** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | | 2.1 |
| Cyclohexane | ND | 0.50 | ND | | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | | 1.2 |
| **Dichlorodifluoromethane** | **0.72** | **0.20** | **3.6** | | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70 - 130 |
| Toluene-d8 | 88 | 70 - 130 |
| 4-Bromofluorobenzene | 90 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-WT081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 009 Work Order # KVMKR1AA Matrix.....: AIR

Date Sampled...: 08/19/2008 Date Received..: 08/22/2008
Prep Date.....: 08/26/2008 Analysis Date... 08/26/2008
Prep Batch #.....: 8240034
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** | **7.0** | **5.0** | **17** | | **12** |
| **Ethylbenzene** | **0.083** | **0.20** | **0.36** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.32** | **0.20** | **1.8** | | **1.1** |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.16** | **0.50** | **0.56** | **J** | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| **tert-Butyl alcohol** | **0.28** | **2.0** | **0.86** | **J** | **6.1** |
| **Methylene chloride** | **0.37** | **0.50** | **1.3** | **J B** | **1.7** |
| **Benzene** | **0.21** | **0.20** | **0.66** | | **0.64** |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| **Toluene** | **0.41** | **0.20** | **1.5** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| **Trichloroethene** | **0.26** | **0.20** | **1.4** | | **1.1** |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.095** | **0.20** | **0.73** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.086** | **0.20** | **0.42** | **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** | **0.17** | **0.20** | **0.75** | **J** | **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** | **4.6** | | **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** | **0.095** | **0.50** | **0.30** | **J B** | **1.6** |
| **Carbon tetrachloride** | **0.12** | **0.20** | **0.77** | **J** | **1.3** |

**Lawhon and Associates**

**Client Sample ID: SU-WT081908**

**GC/MS Volatiles**

**Lot-Sample #** H8H220248 - 009 **Work Order #** KVMKR1AA **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** | **0.53** | **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** | **0.65** | **0.20** | **3.2** | **0.99** |
| 1,1-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,2-Dichloroethane | ND | 0.20 | ND | 0.81 |
| 1,1-Dichloroethene | ND | 0.20 | ND | 0.79 |
| cis-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| trans-1,2-Dichloroethene | ND | 0.20 | ND | 0.79 |
| 1,2-Dichloropropane | ND | 0.20 | ND | 0.92 |
| cis-1,3-Dichloropropene | ND | 0.20 | ND | 0.91 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Unknown | 3.7 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70 - 130 |
| Toluene-d8 | 90 | 70 - 130 |
| 4-Bromofluorobenzene | 90 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: SU-TB081908 Co-located sample School

GC/MS Volatiles

Lot-Sample # H8H220248 - 010 Work Order # KVMKW1AA Matrix.....: AIR

Date Sampled...: 08/19/2008 Date Received..: 08/22/2008
Prep Date.....: 08/26/2008 Analysis Date... 08/26/2008
Prep Batch #.....: 8240034
Dilution Factor.: 1 Method.....: TO-15

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| **Acetone** | **2.7** | **5.0** | **6.5** | **J** | **12** |
| **Ethylbenzene** | **0.14** | **0.20** | **0.61** | **J** | **0.87** |
| **Trichlorofluoromethane** | **0.41** | **0.20** | **2.3** | | **1.1** |
| **n-Heptane** | **0.16** | **0.50** | **0.65** | **J** | **2.0** |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| **n-Hexane** | **0.24** | **0.50** | **0.85** | **J** | **1.8** |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| **tert-Butyl alcohol** | **0.16** | **2.0** | **0.49** | **J** | **6.1** |
| **Methylene chloride** | **0.71** | **0.50** | **2.5** | **B** | **1.7** |
| **Benzene** | **0.24** | **0.20** | **0.77** | | **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** | **0.50** | **0.20** | **1.9** | | **0.75** |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| **1,1,2-Trichloro-1,2,2-trifluoroethane** | **0.11** | **0.20** | **0.86** | **J** | **1.5** |
| **1,2,4-Trimethylbenzene** | **0.085** | **0.20** | **0.42** | **J** | **0.98** |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| **o-Xylene** | **0.10** | **0.20** | **0.44** | **J** | **0.87** |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| **m-Xylene & p-Xylene** | **0.23** | **0.20** | **1.0** | | **0.87** |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| **2-Butanone (MEK)** | **0.27** | **1.0** | **0.80** | **J** | **2.9** |
| **4-Methyl-2-pentanone (MIBK)** | **0.22** | **0.50** | **0.91** | **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** | **0.067** | **0.50** | **0.21** | **J B** | **1.6** |
| **Carbon tetrachloride** | **0.14** | **0.20** | **0.85** | **J** | **1.3** |

Lawhon and Associates

Client Sample ID: SU-TB081908

GC/MS Volatiles

Lot-Sample # H8H220248 - 010 Work Order # KVMKW1AA Matrix.....: AIR

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|
| Chlorobenzene | ND | 0.20 | ND | 0.92 |
| Dibromochloromethane | ND | 0.20 | ND | 1.7 |
| Chloroethane | ND | 0.20 | ND | 0.53 |
| Chloroform | ND | 0.20 | ND | 0.98 |
| **Chloromethane** | **0.57** | **0.50** | **1.2** | **1.0** |
| 3-Chloropropene | ND | 0.20 | ND | 0.63 |
| 2-Chlorotoluene | ND | 0.40 | ND | 2.1 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| 1,2-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,3-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| 1,4-Dichlorobenzene | ND | 0.20 | ND | 1.2 |
| **Dichlorodifluoromethane** | **0.75** | **0.20** | **3.7** | **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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| None | | |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 85 | 70 - 130 |
| Toluene-d8 | 88 | 70 - 130 |
| 4-Bromofluorobenzene | 87 | 70 - 130 |

Qualifiers

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

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

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

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H270000 - 034B | Work Order # | KVT9J1AA | Matrix.....: | AIR |
| | 08/18/2008 | Date Received..: | 08/22/2008 | | |
| Prep Date.....: | 08/26/2008 | Analysis Date... | 08/26/2008 | | |
| Prep Batch #.....: | 8240034 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | RESULTS (ppb(v/v)) | REPORTING LIMIT (ppb(v/v)) | RESULTS (ug/m3) | | REPORTING LIMIT (ug/m3) |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | 0.20 | ND | | 0.91 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | 0.20 | ND | | 1.4 |
| Acetone | ND | 5.0 | ND | | 12 |
| Ethylbenzene | ND | 0.20 | ND | | 0.87 |
| Trichlorofluoromethane | ND | 0.20 | ND | | 1.1 |
| n-Heptane | ND | 0.50 | ND | | 2.0 |
| Hexachlorobutadiene | ND | 1.0 | ND | | 11 |
| n-Hexane | ND | 0.50 | ND | | 1.8 |
| 2,2,4-Trimethylpentane | ND | 0.50 | ND | | 2.3 |
| tert-Butyl alcohol | ND | 2.0 | ND | | 6.1 |
| **Methylene chloride** | **0.25** | **0.50** | **0.87** | **J** | **1.7** |
| Benzene | ND | 0.20 | ND | | 0.64 |
| Styrene | ND | 0.20 | ND | | 0.85 |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | ND | | 1.4 |
| Tetrachloroethene | ND | 0.20 | ND | | 1.4 |
| Tetrahydrofuran | ND | 1.0 | ND | | 2.9 |
| Toluene | ND | 0.20 | ND | | 0.75 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ND | | 7.4 |
| 1,1,1-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloroethane | ND | 0.20 | ND | | 1.1 |
| Trichloroethene | ND | 0.20 | ND | | 1.1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | 0.20 | ND | | 1.5 |
| 1,2,4-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| 1,3,5-Trimethylbenzene | ND | 0.20 | ND | | 0.98 |
| Vinyl chloride | ND | 0.20 | ND | | 0.51 |
| o-Xylene | ND | 0.20 | ND | | 0.87 |
| Methyl tert-butyl ether | ND | 1.0 | ND | | 3.6 |
| m-Xylene & p-Xylene | ND | 0.20 | ND | | 0.87 |
| Bromodichloromethane | ND | 0.20 | ND | | 1.3 |
| 1,2-Dibromoethane (EDB) | ND | 0.20 | ND | | 1.5 |
| 2-Butanone (MEK) | ND | 1.0 | ND | | 2.9 |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.50 | ND | | 2.0 |
| Vinyl bromide | ND | 0.20 | ND | | 0.87 |
| Bromoform | ND | 0.20 | ND | | 2.1 |
| Bromomethane | ND | 0.20 | ND | | 0.78 |
| 1,3-Butadiene | ND | 0.40 | ND | | 0.88 |
| 4-Ethyltoluene | ND | 0.40 | ND | | 2.0 |
| **Carbon disulfide** | **0.082** | **0.50** | **0.26** | **J** | **1.6** |

Lawhon and Associates

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H8H270000 - 034B Work Order # KVT9J1AA 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 |

| TENTATIVELY INDENTIFIED COMPOUNDS | RESULT | UNITS |
|---|---|---|
| Aniline | 2.8 | ppb(v/v) |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | 70 - 130 |
| Toluene-d8 | 86 | 70 - 130 |
| 4-Bromofluorobenzene | 89 | 70 - 130 |

Qualifiers

J Estimated result. Result is less than RL.

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

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

Lawhon and Associates

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

| | | | | | |
|---|---|---|---|---|---|
| Lot-Sample # | H8H270000 - 034C | Work Order # | KVT9J1AC | Matrix.....: | AIR |
| | 08/18/2008 | Date Received..: | 08/22/2008 | | |
| Prep Date.....: | 08/26/2008 | Analysis Date... | 08/26/2008 | | |
| Prep Batch #.....: | 8240034 | | | | |
| Dilution Factor.: | 1 | Method.....: | TO-15 | | |

| PARAMETER | SPIKE AMOUNT (ppb(v/v)) | MEASURED AMOUNT (ppb(v/v)) | SPIKE AMOUNT (ug/m3) | MEASURED AMOUNT (ug/m3) | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|---|---|---|---|
| Benzene | 2.50 | 2.04 | 8.0 | 6.5 | 82 | 70 - 130 |
| Toluene | 2.50 | 2.63 | 9.4 | 9.9 | 105 | 70 - 130 |
| Trichloroethene | 2.50 | 2.66 | 13 | 14 | 106 | 70 - 130 |
| Chlorobenzene | 2.50 | 2.90 | 12 | 13 | 116 | 70 - 130 |
| 1,1-Dichloroethene | 2.50 | 2.48 | 9.9 | 9.8 | 99 | 70 - 130 |

| SURROGATE | PERCENT RECOVERY | LABORATORY CONTROL LIMITS (%) |
|---|---|---|
| 1,2-Dichloroethane-d4 | 81 | 70 - 130 |
| Toluene-d8 | 93 | 70 - 130 |
| 4-Bromofluorobenzene | 83 | 70 - 130 |

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

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

# Sample Receipt Documentation

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

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

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

H8H220248

№ 8272

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

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): Rachel Secrest

Signature: Rachel Secrest

| Sample I.D. No. | Type | Type | Type | Date | Time ~~Time~~ Min* | Sample Location | Number of Containers | Turn Around/Requirements | Analysis | Method | VOC | TIC | Expected Conc. (H.M.L.) | Hold | Remarks: Summa Can # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SU-ST081908 | | | | 8/19/08 | 1440 | School | 1 | | | | X | X | | | 12887 |
| SU-GT081908 | | | | 8/19/08 | 1440 | Campground | 1 | | | | X | X | | | 6119 |
| SU-CT081908 | | | | 8/19/08 | 1440 | Cell Tower | 1 | | | | X | X | | | 92030 |
| SU-WT081908 | | | | 8/19/08 | 1440 | Wetland | 1 | | | | X | X | | | 6394 |
| SU-TB081908 | | | | 8/19/08 | 1440 | ~~Trip Blank~~ | 1 | | | | X | X | | | 12838 |
| | | | | | | Co-located at school | | | | | | | | | |

No Custody Seal
Ambient Temp
5 cans, 5 flows

| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
|---|---|---|---|---|---|---|---|
| [signature] | 8/21/08 1500 | Ryan Henry | 8/22/08 0945 | | | | |
| Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time | Relinquished by: (signature) | Date / Time | Received by: (signature) | Date / Time |
| | | | | | | | |

Comments: * Estimated times

Distributor: White - File; Yellow - Lab

## Summary of Results

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

Report Date: 09/10/08
Job Number: E08-09693
Date Received: 8/22/08
Date Analyzed: 09/09/08

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

| Sample Name: | S081908-01A | | S081908-02A | | S081908-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09693-14 | | E08-09693-15 | | E08-09693-16 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.32 | 0.72 | 5.2 | 12 | 0.20 | 0.45 | 0.1 |
| Acetaldehyde | < 0.1 | < 0.2 | 0.64 | 1.4 | < 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 | 0.22 | 0.50 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | < 0.1 | < 0.2 | 0.15 | 0.34 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | G081908-01A | | G081908-02A | | G081908-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09693-17 | | E08-09693-18 | | E08-09693-19 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 2.6 | 5.9 | 1.8 | 4.0 | 0.22 | 0.50 | 0.1 |
| Acetaldehyde | 0.60 | 1.4 | 0.44 | 1.0 | 0.14 | 0.31 | 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 | 0.12 | 0.28 | < 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 | 0.13 | 0.30 | 0.14 | 0.31 | < 0.1 | < 0.2 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzaldehyde | 0.70 | 1.6 | 0.46 | 1.0 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | 0.34 | 0.77 | 0.20 | 0.45 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | 1.4 | 3.2 | 0.92 | 2.1 | < 0.1 | < 0.2 | 0.1 |



Lawhon & Associates, Inc. Job Number: E08-09693
Jobsite: Countywide
Project: #07-0082

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

| Sample Name: | C081908-01A | | C081908-02A | | C081908-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09693-20 | | E08-09693-21 | | E08-09693-22 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 0.36 | 0.82 | 0.44 | 1.0 | 0.22 | 0.50 | 0.1 |
| Acetaldehyde | 0.22 | 0.50 | 0.26 | 0.59 | 0.18 | 0.42 | 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 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |

| Sample Name: | W081908-01A | | W081908-02A | | W081908-03A | | Reporting |
|---|---|---|---|---|---|---|---|
| IAL ID: | E08-09693-23 | | E08-09693-24 | | E08-09693-25 | | Limits |
| Compound | ug | ug/m3 | ug | ug/m3 | ug | ug/m3 | ug |
| Formaldehyde | 4.6 | 10 | 2.6 | 5.9 | 0.46 | 1.0 | 0.1 |
| Acetaldehyde | 1.2 | 2.6 | 0.84 | 1.9 | 0.20 | 0.45 | 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 | 0.32 | 0.72 | 0.20 | 0.45 | < 0.1 | < 0.2 | 0.1 |
| Crotonaldehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Butyraldehyde | 0.38 | 0.86 | 0.20 | 0.45 | < 0.1 | < 0.2 | 0.1 |
| Benzaldehyde | 0.94 | 2.1 | 0.58 | 1.3 | < 0.1 | < 0.2 | 0.1 |
| Isovaleraldehyde | < 0.6 | < 1.4 | < 0.6 | < 1.4 | < 0.6 | < 1.4 | 0.6 |
| Valeraldehyde | 0.94 | 2.1 | 0.54 | 1.2 | < 0.2 | < 0.5 | 0.2 |
| o-Tolualdehyde | < 0.2 | < 0.5 | < 0.2 | < 0.5 | < 0.2 | < 0.5 | 0.2 |
| m- and p-Tolualdehyde | < 0.1 | < 0.2 | < 0.1 | < 0.2 | < 0.1 | < 0.2 | 0.1 |
| Hexaldehyde | 3.4 | 7.7 | 1.9 | 4.3 | 0.50 | 1.1 | 0.1 |



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

Job Number: E08-09693

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

| Sample Name: | 081908A-A | | Reporting |
|---|---|---|---|
| IAL ID: | E08-09693-26 | | Limits |
| Compound | ug | ug/m3 | ug |
| Formaldehyde | < 0.1 | N/A | 0.1 |
| Acetaldehyde | < 0.1 | N/A | 0.1 |
| Acetone | < 0.1 | N/A | 0.1 |
| Acrolein | < 0.1 | N/A | 0.1 |
| Propionaldehyde | < 0.1 | N/A | 0.1 |
| Crotonaldehyde | < 0.1 | N/A | 0.1 |
| Butyraldehyde | < 0.1 | N/A | 0.1 |
| Benzaldehyde | < 0.1 | N/A | 0.1 |
| Isovaleraldehyde | < 0.6 | N/A | 0.6 |
| Valeraldehyde | < 0.2 | N/A | 0.2 |
| o-Tolualdehyde | < 0.2 | N/A | 0.2 |

| | | | |
|---|---|---|---|
| m- and p-Tolualdehyde | < 0.1 | N/A | 0.1 |
| Hexaldehyde | < 0.1 | N/A | 0.1 |

Michael H. Leftin, Ph.D.
Laboratory Director

Analyst: J. Walukiewicz

# Summary of Results

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

Report Date: 09/03/08
Job Number: E08-09693
Date Received: 8/22/08
Date Analyzed: 09/02/08

Project: Countywide
Project #: 07-0082

Analysis: Hydrogen Chloride and Hydrogen Fluoride, NIOSH 7903

| | | Hydrogen Fluoride | | Hydrogen Chloride | |
|---|---|---|---|---|---|
| Sample ID | IAL ID | ug | ug/m3 | ug | ug/m3 |
| S081908-01H | E08-09693-01 | 1.4 | 3.2 | < 0.4 | < 0.9 |
| S081908-02H | E08-09693-02 | 1.3 | 3.0 | < 0.4 | < 0.9 |
| S081908-03H | E08-09693-03 | 0.68 | 1.5 | < 0.4 | < 0.9 |
| G081908-01H | E08-09693-04 | 2.1 | 4.8 | < 0.4 | < 0.9 |
| G081908-02H | E08-09693-05 | 1.1 | 2.4 | < 0.4 | < 0.9 |
| G081908-03H | E08-09693-06 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| C081908-01H | E08-09693-07 | 1.7 | 3.8 | < 0.4 | < 0.9 |
| C081908-02H | E08-09693-08 | 1.6 | 3.6 | < 0.4 | < 0.9 |
| C081908-03H | E08-09693-09 | < 0.6 | < 1.4 | < 0.4 | < 0.9 |
| W081908-01H | E08-09693-10 | 2.3 | 5.2 | < 0.4 | < 0.9 |
| W081908-02H | E08-09693-11 | 1.4 | 3.1 | < 0.4 | < 0.9 |
| W081908-03H | E08-09693-12 | 0.79 | 1.8 | < 0.4 | < 0.9 |
| 081908A-H | E08-09693-13 | < 0.6 | < N/A | < 0.4 | N/A |
| 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: J. Walukiewicz