# DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

**County Executive**
Kathleen M. Falk

1919 Alliant Energy Center Way ◆ Madison, Wisconsin 53713
Phone: (608) 266-4018 ◆ Fax: (608) 267-1533

**Commissioner / Director**
Gerald J. Mandli


May 19, 2008

**ATTENTION ALL REQUEST FOR PROPOSAL (RFP) HOLDERS**

**RFP NO. 108068 - ADDENDUM NO. 1**

**PURCHASE OF HIGH BTU BIOMETHANE**

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**PROPOSALS DUE**: THURSDAY, MAY 29, 2008, 2:00 PM. DUE DATE AND TIME ARE NOT CHANGED BY THIS ADDENDUM.

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This Addendum is issued to modify, explain or clarify the original Request for Proposal (RFP) and is hereby made a part of the RFP. **Please attach this Addendum to your Proposal.**

**PLEASE MAKE THE FOLLOWING CHANGES:**

1. The available gas in Decatherms /day in the Scope of Proposal and Background Information section is incorrect. Dane County Rodefeld Landfill currently produces approximately 650 Decatherms of energy (1000 CFM of untreated landfill gas) per day. In the next 5 to 7 years the quantity of energy in the form of biogas is expected to double as a landfill bioreactor is being implemented. Therefore, the available gas for purchase is expected to be between 650 and 1,300 Decatherms per day during the contract period.

2. Attached are recent laboratory test results performed on untreated landfill gas from our site. This information, while not necessary for bidding under the standard outline, may be helpful for those submitting alternate proposals.

If any additional information about this Addendum is needed, please call Robert Regan at 608/266-4139.

Enclosures:
Air Toxics, Ltd. laboratory test results: Sections A, B, C, & D.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**
**Hours 8:00 A.M to 6:00 P.M. Pacific**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# WORK ORDER #: 0703652A

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 | **BILL TO:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 |
| **PHONE:** | 608-831-4444 | **P.O. #** | 6198.04 |
| **FAX:** | 608-831-3334 | **PROJECT #** | 6198.04 Rodefeld Landfill |
| **DATE RECEIVED:** | 03/29/2007 | **CONTACT:** | Brandon Dunmore |
| **DATE COMPLETED:** | 04/03/2007 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. |
|---|---|---|---|
| 01A | Blower Outlet | Modified TO-15 | 4.5 "Hg |
| 01AA | Blower Outlet Duplicate | Modified TO-15 | 4.5 "Hg |
| 02A | Lab Blank | Modified TO-15 | NA |
| 03A | CCV | Modified TO-15 | NA |
| 04A | LCS | Modified TO-15 | NA |

CERTIFIED BY: Linda D. Fruman DATE: 04/03/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**
**Modified TO-15**
**RMT, Inc.**
**Workorder# 0703652A**

One 6 Liter Summa Canister sample was received on March 29, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

| ***Requirement*** | ***TO-15*** | ***ATL Modifications*** |
|---|---|---|
| Daily CCV | +- 30% Difference | </= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

## Receiving Notes

There were no receiving discrepancies.

## Analytical Notes

There were no analytical discrepancies.

## Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: Blower Outlet**

**Lab ID#: 0703652A-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 79 | 990 | 390 | 4900 |
| Vinyl Chloride | 79 | 740 | 200 | 1900 |
| Freon 11 | 79 | 150 | 440 | 860 |
| Ethanol | 320 | 5000 | 600 | 9500 |
| Acetone | 320 | 2800 | 750 | 6600 |
| 2-Propanol | 320 | 1400 | 780 | 3500 |
| Carbon Disulfide | 79 | 81 | 250 | 250 |
| Methylene Chloride | 79 | 210 | 270 | 740 |
| Hexane | 79 | 1300 | 280 | 4400 |
| 1,1-Dichloroethane | 79 | 140 | 320 | 560 |
| 2-Butanone (Methyl Ethyl Ketone) | 79 | 3800 | 230 | 11000 |
| cis-1,2-Dichloroethene | 79 | 710 | 310 | 2800 |
| Tetrahydrofuran | 79 | 3200 | 230 | 9600 |
| Cyclohexane | 79 | 1300 | 270 | 4500 |
| 2,2,4-Trimethylpentane | 79 | 570 | 370 | 2600 |
| Benzene | 79 | 660 | 250 | 2100 |
| Heptane | 79 | 1900 | 320 | 8000 |
| Trichloroethene | 79 | 290 | 420 | 1600 |
| 4-Methyl-2-pentanone | 79 | 320 | 320 | 1300 |
| Toluene | 79 | 19000 | 300 | 70000 |
| Tetrachloroethene | 79 | 240 | 540 | 1700 |
| Chlorobenzene | 79 | 110 | 360 | 490 |
| Ethyl Benzene | 79 | 5200 | 340 | 23000 |
| m,p-Xylene | 79 | 8800 | 340 | 38000 |
| o-Xylene | 79 | 2600 | 340 | 11000 |
| Styrene | 79 | 440 | 340 | 1900 |
| Propylbenzene | 79 | 280 | 390 | 1400 |
| 4-Ethyltoluene | 79 | 910 | 390 | 4500 |
| 1,3,5-Trimethylbenzene | 79 | 340 | 390 | 1700 |
| 1,2,4-Trimethylbenzene | 79 | 860 | 390 | 4200 |
| 1,4-Dichlorobenzene | 79 | 260 | 480 | 1600 |

**Client Sample ID: Blower Outlet Duplicate**

**Lab ID#: 0703652A-01AA**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 79 | 920 | 390 | 4500 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: Blower Outlet Duplicate**

**Lab ID#: 0703652A-01AA**

| | | | | |
|---|---|---|---|---|
| Vinyl Chloride | 79 | 700 | 200 | 1800 |
| Freon 11 | 79 | 140 | 440 | 820 |
| Ethanol | 320 | 5400 | 600 | 10000 |
| Acetone | 320 | 2900 | 750 | 6800 |
| 2-Propanol | 320 | 1500 | 780 | 3700 |
| Carbon Disulfide | 79 | 88 | 250 | 270 |
| Methylene Chloride | 79 | 210 | 270 | 740 |
| Hexane | 79 | 1300 | 280 | 4700 |
| 1,1-Dichloroethane | 79 | 140 | 320 | 570 |
| 2-Butanone (Methyl Ethyl Ketone) | 79 | 4000 | 230 | 12000 |
| cis-1,2-Dichloroethene | 79 | 730 | 310 | 2900 |
| Tetrahydrofuran | 79 | 3400 | 230 | 9900 |
| Cyclohexane | 79 | 1400 | 270 | 4700 |
| 2,2,4-Trimethylpentane | 79 | 580 | 370 | 2700 |
| Benzene | 79 | 660 | 250 | 2100 |
| Heptane | 79 | 2000 | 320 | 8200 |
| Trichloroethene | 79 | 290 | 420 | 1600 |
| 4-Methyl-2-pentanone | 79 | 320 | 320 | 1300 |
| Toluene | 79 | 19000 | 300 | 71000 |
| Tetrachloroethene | 79 | 260 | 540 | 1800 |
| Chlorobenzene | 79 | 110 | 360 | 520 |
| Ethyl Benzene | 79 | 5300 | 340 | 23000 |
| m,p-Xylene | 79 | 9100 | 340 | 39000 |
| o-Xylene | 79 | 2800 | 340 | 12000 |
| Styrene | 79 | 480 | 340 | 2000 |
| Propylbenzene | 79 | 300 | 390 | 1500 |
| 4-Ethyltoluene | 79 | 1000 | 390 | 4900 |
| 1,3,5-Trimethylbenzene | 79 | 360 | 390 | 1700 |
| 1,2,4-Trimethylbenzene | 79 | 950 | 390 | 4700 |
| 1,4-Dichlorobenzene | 79 | 330 | 480 | 2000 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Blower Outlet**

**Lab ID#: 0703652A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040213** | **Date of Collection:** | **3/28/07** |
| **Dil. Factor:** | **158** | **Date of Analysis:** | **4/2/07 06:56 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 79 | 990 | 390 | 4900 |
| Freon 114 | 79 | Not Detected | 550 | Not Detected |
| Chloromethane | 320 | Not Detected | 650 | Not Detected |
| Vinyl Chloride | 79 | 740 | 200 | 1900 |
| 1,3-Butadiene | 79 | Not Detected | 170 | Not Detected |
| Bromomethane | 79 | Not Detected | 310 | Not Detected |
| Chloroethane | 79 | Not Detected | 210 | Not Detected |
| Freon 11 | 79 | 150 | 440 | 860 |
| Ethanol | 320 | 5000 | 600 | 9500 |
| Freon 113 | 79 | Not Detected | 600 | Not Detected |
| 1,1-Dichloroethene | 79 | Not Detected | 310 | Not Detected |
| Acetone | 320 | 2800 | 750 | 6600 |
| 2-Propanol | 320 | 1400 | 780 | 3500 |
| Carbon Disulfide | 79 | 81 | 250 | 250 |
| 3-Chloropropene | 320 | Not Detected | 990 | Not Detected |
| Methylene Chloride | 79 | 210 | 270 | 740 |
| Methyl tert-butyl ether | 79 | Not Detected | 280 | Not Detected |
| trans-1,2-Dichloroethene | 79 | Not Detected | 310 | Not Detected |
| Hexane | 79 | 1300 | 280 | 4400 |
| 1,1-Dichloroethane | 79 | 140 | 320 | 560 |
| 2-Butanone (Methyl Ethyl Ketone) | 79 | 3800 | 230 | 11000 |
| cis-1,2-Dichloroethene | 79 | 710 | 310 | 2800 |
| Tetrahydrofuran | 79 | 3200 | 230 | 9600 |
| Chloroform | 79 | Not Detected | 380 | Not Detected |
| 1,1,1-Trichloroethane | 79 | Not Detected | 430 | Not Detected |
| Cyclohexane | 79 | 1300 | 270 | 4500 |
| Carbon Tetrachloride | 79 | Not Detected | 500 | Not Detected |
| 2,2,4-Trimethylpentane | 79 | 570 | 370 | 2600 |
| Benzene | 79 | 660 | 250 | 2100 |
| 1,2-Dichloroethane | 79 | Not Detected | 320 | Not Detected |
| Heptane | 79 | 1900 | 320 | 8000 |
| Trichloroethene | 79 | 290 | 420 | 1600 |
| 1,2-Dichloropropane | 79 | Not Detected | 360 | Not Detected |
| 1,4-Dioxane | 320 | Not Detected | 1100 | Not Detected |
| Bromodichloromethane | 79 | Not Detected | 530 | Not Detected |
| cis-1,3-Dichloropropene | 79 | Not Detected | 360 | Not Detected |
| 4-Methyl-2-pentanone | 79 | 320 | 320 | 1300 |
| Toluene | 79 | 19000 | 300 | 70000 |
| trans-1,3-Dichloropropene | 79 | Not Detected | 360 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Blower Outlet**

**Lab ID#: 0703652A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040213** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **158** | **Date of Analysis: 4/2/07 06:56 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | 79 | Not Detected | 430 | Not Detected |
| Tetrachloroethene | 79 | 240 | 540 | 1700 |
| 2-Hexanone | 320 | Not Detected | 1300 | Not Detected |
| Dibromochloromethane | 79 | Not Detected | 670 | Not Detected |
| 1,2-Dibromoethane (EDB) | 79 | Not Detected | 610 | Not Detected |
| Chlorobenzene | 79 | 110 | 360 | 490 |
| Ethyl Benzene | 79 | 5200 | 340 | 23000 |
| m,p-Xylene | 79 | 8800 | 340 | 38000 |
| o-Xylene | 79 | 2600 | 340 | 11000 |
| Styrene | 79 | 440 | 340 | 1900 |
| Bromoform | 79 | Not Detected | 820 | Not Detected |
| Cumene | 79 | Not Detected | 390 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 79 | Not Detected | 540 | Not Detected |
| Propylbenzene | 79 | 280 | 390 | 1400 |
| 4-Ethyltoluene | 79 | 910 | 390 | 4500 |
| 1,3,5-Trimethylbenzene | 79 | 340 | 390 | 1700 |
| 1,2,4-Trimethylbenzene | 79 | 860 | 390 | 4200 |
| 1,3-Dichlorobenzene | 79 | Not Detected | 480 | Not Detected |
| 1,4-Dichlorobenzene | 79 | 260 | 480 | 1600 |
| alpha-Chlorotoluene | 79 | Not Detected | 410 | Not Detected |
| 1,2-Dichlorobenzene | 79 | Not Detected | 470 | Not Detected |
| 1,2,4-Trichlorobenzene | 320 | Not Detected | 2300 | Not Detected |
| Hexachlorobutadiene | 320 | Not Detected | 3400 | Not Detected |

**Container Type: 6 Liter Summa Canister**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Blower Outlet Duplicate**

**Lab ID#: 0703652A-01AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040214** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **158** | **Date of Analysis: 4/2/07 07:42 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 79 | 920 | 390 | 4500 |
| Freon 114 | 79 | Not Detected | 550 | Not Detected |
| Chloromethane | 320 | Not Detected | 650 | Not Detected |
| Vinyl Chloride | 79 | 700 | 200 | 1800 |
| 1,3-Butadiene | 79 | Not Detected | 170 | Not Detected |
| Bromomethane | 79 | Not Detected | 310 | Not Detected |
| Chloroethane | 79 | Not Detected | 210 | Not Detected |
| Freon 11 | 79 | 140 | 440 | 820 |
| Ethanol | 320 | 5400 | 600 | 10000 |
| Freon 113 | 79 | Not Detected | 600 | Not Detected |
| 1,1-Dichloroethene | 79 | Not Detected | 310 | Not Detected |
| Acetone | 320 | 2900 | 750 | 6800 |
| 2-Propanol | 320 | 1500 | 780 | 3700 |
| Carbon Disulfide | 79 | 88 | 250 | 270 |
| 3-Chloropropene | 320 | Not Detected | 990 | Not Detected |
| Methylene Chloride | 79 | 210 | 270 | 740 |
| Methyl tert-butyl ether | 79 | Not Detected | 280 | Not Detected |
| trans-1,2-Dichloroethene | 79 | Not Detected | 310 | Not Detected |
| Hexane | 79 | 1300 | 280 | 4700 |
| 1,1-Dichloroethane | 79 | 140 | 320 | 570 |
| 2-Butanone (Methyl Ethyl Ketone) | 79 | 4000 | 230 | 12000 |
| cis-1,2-Dichloroethene | 79 | 730 | 310 | 2900 |
| Tetrahydrofuran | 79 | 3400 | 230 | 9900 |
| Chloroform | 79 | Not Detected | 380 | Not Detected |
| 1,1,1-Trichloroethane | 79 | Not Detected | 430 | Not Detected |
| Cyclohexane | 79 | 1400 | 270 | 4700 |
| Carbon Tetrachloride | 79 | Not Detected | 500 | Not Detected |
| 2,2,4-Trimethylpentane | 79 | 580 | 370 | 2700 |
| Benzene | 79 | 660 | 250 | 2100 |
| 1,2-Dichloroethane | 79 | Not Detected | 320 | Not Detected |
| Heptane | 79 | 2000 | 320 | 8200 |
| Trichloroethene | 79 | 290 | 420 | 1600 |
| 1,2-Dichloropropane | 79 | Not Detected | 360 | Not Detected |
| 1,4-Dioxane | 320 | Not Detected | 1100 | Not Detected |
| Bromodichloromethane | 79 | Not Detected | 530 | Not Detected |
| cis-1,3-Dichloropropene | 79 | Not Detected | 360 | Not Detected |
| 4-Methyl-2-pentanone | 79 | 320 | 320 | 1300 |
| Toluene | 79 | 19000 | 300 | 71000 |
| trans-1,3-Dichloropropene | 79 | Not Detected | 360 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Blower Outlet Duplicate**

**Lab ID#: 0703652A-01AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040214** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **158** | **Date of Analysis: 4/2/07 07:42 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | 79 | Not Detected | 430 | Not Detected |
| Tetrachloroethene | 79 | 260 | 540 | 1800 |
| 2-Hexanone | 320 | Not Detected | 1300 | Not Detected |
| Dibromochloromethane | 79 | Not Detected | 670 | Not Detected |
| 1,2-Dibromoethane (EDB) | 79 | Not Detected | 610 | Not Detected |
| Chlorobenzene | 79 | 110 | 360 | 520 |
| Ethyl Benzene | 79 | 5300 | 340 | 23000 |
| m,p-Xylene | 79 | 9100 | 340 | 39000 |
| o-Xylene | 79 | 2800 | 340 | 12000 |
| Styrene | 79 | 480 | 340 | 2000 |
| Bromoform | 79 | Not Detected | 820 | Not Detected |
| Cumene | 79 | Not Detected | 390 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 79 | Not Detected | 540 | Not Detected |
| Propylbenzene | 79 | 300 | 390 | 1500 |
| 4-Ethyltoluene | 79 | 1000 | 390 | 4900 |
| 1,3,5-Trimethylbenzene | 79 | 360 | 390 | 1700 |
| 1,2,4-Trimethylbenzene | 79 | 950 | 390 | 4700 |
| 1,3-Dichlorobenzene | 79 | Not Detected | 480 | Not Detected |
| 1,4-Dichlorobenzene | 79 | 330 | 480 | 2000 |
| alpha-Chlorotoluene | 79 | Not Detected | 410 | Not Detected |
| 1,2-Dichlorobenzene | 79 | Not Detected | 470 | Not Detected |
| 1,2,4-Trichlorobenzene | 320 | Not Detected | 2300 | Not Detected |
| Hexachlorobutadiene | 320 | Not Detected | 3400 | Not Detected |

**Container Type: 6 Liter Summa Canister**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652A-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040212** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 05:56 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.50 | Not Detected | 2.5 | Not Detected |
| Freon 114 | 0.50 | Not Detected | 3.5 | Not Detected |
| Chloromethane | 2.0 | Not Detected | 4.1 | Not Detected |
| Vinyl Chloride | 0.50 | Not Detected | 1.3 | Not Detected |
| 1,3-Butadiene | 0.50 | Not Detected | 1.1 | Not Detected |
| Bromomethane | 0.50 | Not Detected | 1.9 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Ethanol | 2.0 | Not Detected | 3.8 | Not Detected |
| Freon 113 | 0.50 | Not Detected | 3.8 | Not Detected |
| 1,1-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Acetone | 2.0 | Not Detected | 4.8 | Not Detected |
| 2-Propanol | 2.0 | Not Detected | 4.9 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 2.0 | Not Detected | 6.3 | Not Detected |
| Methylene Chloride | 0.50 | Not Detected | 1.7 | Not Detected |
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| trans-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Hexane | 0.50 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,1,1-Trichloroethane | 0.50 | Not Detected | 2.7 | Not Detected |
| Cyclohexane | 0.50 | Not Detected | 1.7 | Not Detected |
| Carbon Tetrachloride | 0.50 | Not Detected | 3.1 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| 1,2-Dichloroethane | 0.50 | Not Detected | 2.0 | Not Detected |
| Heptane | 0.50 | Not Detected | 2.0 | Not Detected |
| Trichloroethene | 0.50 | Not Detected | 2.7 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,4-Dioxane | 2.0 | Not Detected | 7.2 | Not Detected |
| Bromodichloromethane | 0.50 | Not Detected | 3.4 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 4-Methyl-2-pentanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652A-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040212** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 05:56 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | 0.50 | Not Detected | 2.7 | Not Detected |
| Tetrachloroethene | 0.50 | Not Detected | 3.4 | Not Detected |
| 2-Hexanone | 2.0 | Not Detected | 8.2 | Not Detected |
| Dibromochloromethane | 0.50 | Not Detected | 4.2 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.50 | Not Detected | 3.8 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.1 | Not Detected |
| Bromoform | 0.50 | Not Detected | 5.2 | Not Detected |
| Cumene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.50 | Not Detected | 3.4 | Not Detected |
| Propylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 4-Ethyltoluene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.0 | Not Detected | 15 | Not Detected |
| Hexachlorobutadiene | 2.0 | Not Detected | 21 | Not Detected |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 96 | 70-130 |
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| 4-Bromofluorobenzene | 91 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0703652A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 08:26 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 98 |
| Freon 114 | 104 |
| Chloromethane | 99 |
| Vinyl Chloride | 92 |
| 1,3-Butadiene | 95 |
| Bromomethane | 94 |
| Chloroethane | 83 |
| Freon 11 | 105 |
| Ethanol | 92 |
| Freon 113 | 98 |
| 1,1-Dichloroethene | 97 |
| Acetone | 91 |
| 2-Propanol | 92 |
| Carbon Disulfide | 97 |
| 3-Chloropropene | 92 |
| Methylene Chloride | 98 |
| Methyl tert-butyl ether | 98 |
| trans-1,2-Dichloroethene | 96 |
| Hexane | 90 |
| 1,1-Dichloroethane | 95 |
| 2-Butanone (Methyl Ethyl Ketone) | 91 |
| cis-1,2-Dichloroethene | 97 |
| Tetrahydrofuran | 92 |
| Chloroform | 95 |
| 1,1,1-Trichloroethane | 100 |
| Cyclohexane | 93 |
| Carbon Tetrachloride | 106 |
| 2,2,4-Trimethylpentane | 93 |
| Benzene | 92 |
| 1,2-Dichloroethane | 103 |
| Heptane | 98 |
| Trichloroethene | 100 |
| 1,2-Dichloropropane | 95 |
| 1,4-Dioxane | 96 |
| Bromodichloromethane | 103 |
| cis-1,3-Dichloropropene | 99 |
| 4-Methyl-2-pentanone | 95 |
| Toluene | 97 |
| trans-1,3-Dichloropropene | 98 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: CCV**

**Lab ID#: 0703652A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040202** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 08:26 AM** | |

| Compound | %Recovery |
|---|---|
| 1,1,2-Trichloroethane | 96 |
| Tetrachloroethene | 93 |
| 2-Hexanone | 93 |
| Dibromochloromethane | 105 |
| 1,2-Dibromoethane (EDB) | 100 |
| Chlorobenzene | 96 |
| Ethyl Benzene | 94 |
| m,p-Xylene | 93 |
| o-Xylene | 93 |
| Styrene | 84 |
| Bromoform | 110 |
| Cumene | 80 |
| 1,1,2,2-Tetrachloroethane | 93 |
| Propylbenzene | 91 |
| 4-Ethyltoluene | 92 |
| 1,3,5-Trimethylbenzene | 87 |
| 1,2,4-Trimethylbenzene | 86 |
| 1,3-Dichlorobenzene | 89 |
| 1,4-Dichlorobenzene | 88 |
| alpha-Chlorotoluene | 97 |
| 1,2-Dichlorobenzene | 87 |
| 1,2,4-Trichlorobenzene | 102 |
| Hexachlorobutadiene | 94 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 98 | 70-130 |
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652A-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 09:09 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 84 |
| Freon 114 | 72 |
| Chloromethane | 83 |
| Vinyl Chloride | 81 |
| 1,3-Butadiene | 84 |
| Bromomethane | 88 |
| Chloroethane | 80 |
| Freon 11 | 97 |
| Ethanol | 100 |
| Freon 113 | 104 |
| 1,1-Dichloroethene | 103 |
| Acetone | 95 |
| 2-Propanol | 97 |
| Carbon Disulfide | 92 |
| 3-Chloropropene | 89 |
| Methylene Chloride | 94 |
| Methyl tert-butyl ether | 95 |
| trans-1,2-Dichloroethene | 91 |
| Hexane | 88 |
| 1,1-Dichloroethane | 94 |
| 2-Butanone (Methyl Ethyl Ketone) | 89 |
| cis-1,2-Dichloroethene | 93 |
| Tetrahydrofuran | 89 |
| Chloroform | 90 |
| 1,1,1-Trichloroethane | 94 |
| Cyclohexane | 89 |
| Carbon Tetrachloride | 98 |
| 2,2,4-Trimethylpentane | 88 |
| Benzene | 89 |
| 1,2-Dichloroethane | 99 |
| Heptane | 95 |
| Trichloroethene | 96 |
| 1,2-Dichloropropane | 91 |
| 1,4-Dioxane | 91 |
| Bromodichloromethane | 98 |
| cis-1,3-Dichloropropene | 93 |
| 4-Methyl-2-pentanone | 96 |
| Toluene | 97 |
| trans-1,3-Dichloropropene | 90 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652A-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **t040203** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 09:09 AM** | |

| Compound | %Recovery |
|---|---|
| 1,1,2-Trichloroethane | 90 |
| Tetrachloroethene | 89 |
| 2-Hexanone | 93 |
| Dibromochloromethane | 100 |
| 1,2-Dibromoethane (EDB) | 91 |
| Chlorobenzene | 91 |
| Ethyl Benzene | 90 |
| m,p-Xylene | 89 |
| o-Xylene | 90 |
| Styrene | 85 |
| Bromoform | 108 |
| Cumene | 81 |
| 1,1,2,2-Tetrachloroethane | 91 |
| Propylbenzene | 92 |
| 4-Ethyltoluene | 93 |
| 1,3,5-Trimethylbenzene | 85 |
| 1,2,4-Trimethylbenzene | 85 |
| 1,3-Dichlorobenzene | 89 |
| 1,4-Dichlorobenzene | 88 |
| alpha-Chlorotoluene | 102 |
| 1,2-Dichlorobenzene | 87 |
| 1,2,4-Trichlorobenzene | 106 |
| Hexachlorobutadiene | 97 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Toluene-d8 | 99 | 70-130 |
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

# WORK ORDER #: 0703652B

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 | **BILL TO:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 |
| **PHONE:** | 608-831-4444 | **P.O. #** | 6198.04 |
| **FAX:** | 608-831-3334 | **PROJECT #** | 6198.04 Rodefeld Landfill |
| **DATE RECEIVED:** | 03/29/2007 | **CONTACT:** | Brandon Dunmore |
| **DATE COMPLETED:** | 04/03/2007 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. |
|---|---|---|---|
| 01A | Blower Outlet | Modified ASTM D-1945 | 4.5 "Hg |
| 02A | Lab Blank | Modified ASTM D-1945 | NA |
| 02B | Lab Blank | Modified ASTM D-1945 | NA |
| 03A | LCS | Modified ASTM D-1945 | NA |
| 03B | LCS | Modified ASTM D-1945 | NA |

CERTIFIED BY: Linda D. Fruman DATE: 04/03/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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**LABORATORY NARRATIVE**
**Modified ASTM D-1945**
**RMT, Inc.**
**Workorder# 0703652B**

One 6 Liter Summa Canister sample was received on March 29, 2007. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample. See the data sheets for the reporting limits for each compound.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples include:

| ***Requirement*** | ***ASTM D-1945*** | ***ATL Modifications*** |
|---|---|---|
| Normalization | Sum of original values should not differ from 100.0% by more than 1.0%. | Sum of original values may range between 75-125%. Normalization of data not performed. |
| Sample analysis | Equilibrate samples to 20-50° F. above source temperature at field sampling | No heating of samples is performed. |
| Sample calculation | Response factor is calculated using peak height for C5 and lighter compounds. | Peak areas are used for all target analytes to quantitate concentrations. |
| Reference Standard | Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%. | A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 25%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons). |
| Sample Injection Volume | 0.50 mL to achieve Methane linearity. | 1.0 mL. |

## Receiving Notes

There were no receiving discrepancies.

## Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

**Definition of Data Qualifying Flags**

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Summary of Detected Compounds
# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

**Client Sample ID: Blower Outlet**

**Lab ID#: 0703652B-01A**

| Compound | Rpt. Limit (%) | Amount (%) |
|---|---|---|
| Oxygen | 0.16 | 0.32 |
| Nitrogen | 0.16 | 1.7 |
| Methane | 0.00016 | 56 |
| Carbon Dioxide | 0.016 | 42 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Blower Outlet**

**Lab ID#: 0703652B-01A**

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945**

| | | | |
|---|---|---|---|
| **File Name:** | **9040212** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 4/2/07 01:37 PM** | |

| **Compound** | **Rpt. Limit (%)** | **Amount (%)** |
|---|---|---|
| Oxygen | 0.16 | 0.32 |
| Nitrogen | 0.16 | 1.7 |
| Carbon Monoxide | 0.016 | Not Detected |
| Methane | 0.00016 | 56 |
| Carbon Dioxide | 0.016 | 42 |
| Ethane | 0.0016 | Not Detected |
| Ethene | 0.0016 | Not Detected |
| Acetylene | 0.0016 | Not Detected |
| Propane | 0.0016 | Not Detected |
| Isobutane | 0.0016 | Not Detected |
| Butane | 0.0016 | Not Detected |
| Neopentane | 0.0016 | Not Detected |
| Isopentane | 0.0016 | Not Detected |
| Pentane | 0.0016 | Not Detected |
| C6+ | 0.016 | Not Detected |
| Hydrogen | 0.016 | Not Detected |

**Container Type: 6 Liter Summa Canister**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652B-02A**

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945**

| | | | |
|---|---|---|---|
| **File Name:** | **9040210** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 12:03 PM** | |

| **Compound** | **Rpt. Limit (%)** | **Amount (%)** |
|---|---|---|
| Oxygen | 0.10 | Not Detected |
| Nitrogen | 0.10 | Not Detected |
| Carbon Monoxide | 0.010 | Not Detected |
| Methane | 0.00010 | Not Detected |
| Carbon Dioxide | 0.010 | Not Detected |
| Ethane | 0.0010 | Not Detected |
| Ethene | 0.0010 | Not Detected |
| Acetylene | 0.0010 | Not Detected |
| Propane | 0.0010 | Not Detected |
| Isobutane | 0.0010 | Not Detected |
| Butane | 0.0010 | Not Detected |
| Neopentane | 0.0010 | Not Detected |
| Isopentane | 0.0010 | Not Detected |
| Pentane | 0.0010 | Not Detected |
| C6+ | 0.010 | Not Detected |

**Container Type: NA - Not Applicable**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652B-02B**

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945**

| | | | |
|---|---|---|---|
| **File Name:** | **9040209b** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 11:33 AM** | |

| **Compound** | **Rpt. Limit (%)** | **Amount (%)** |
|---|---|---|
| Hydrogen | 0.010 | Not Detected |

**Container Type: NA - Not Applicable**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652B-03A**

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945**

| | | | |
|---|---|---|---|
| **File Name:** | **9040208** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 11:07 AM** | |

| Compound | %Recovery |
|---|---|
| Oxygen | 95 |
| Nitrogen | 99 |
| Carbon Monoxide | 99 |
| Methane | 102 |
| Carbon Dioxide | 102 |
| Ethane | 104 |
| Ethene | 102 |
| Acetylene | 101 |
| Propane | 99 |
| Isobutane | 105 |
| Butane | 108 |
| Neopentane | 107 |
| Isopentane | 101 |
| Pentane | 98 |
| C6+ | 99 |

**Container Type: NA - Not Applicable**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652B-03B**

**NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945**

| | | | |
|---|---|---|---|
| **File Name:** | **9040207b** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 4/2/07 10:39 AM** | |

| Compound | %Recovery |
|---|---|
| Hydrogen | 94 |

**Container Type: NA - Not Applicable**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

# WORK ORDER #: 0703652C

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 | **BILL TO:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 |
| **PHONE:** | 608-831-4444 | **P.O. #** | 6198.04 |
| **FAX:** | 608-831-3334 | **PROJECT #** | 6198.04 Rodefeld Landfill |
| **DATE RECEIVED:** | 03/29/2007 | **CONTACT:** | Brandon Dunmore |
| **DATE COMPLETED:** | 04/03/2007 | | |

| FRACTION # | NAME | TEST |
|---|---|---|
| 01A | 72122 (Front Half) | Siloxanes |
| 01AA | 72122 (Front Half) Duplicate | Siloxanes |
| 01B | 72123 (Back Half) | Siloxanes |
| 02A | Lab Blank | Siloxanes |
| 03A | LCS | Siloxanes |

CERTIFIED BY: Linda D. Fruman DATE: 04/03/07

Laboratory Director



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**LABORATORY NARRATIVE**
**Siloxanes**
**RMT, Inc.**
**Workorder# 0703652C**

Two Vial samples were received on March 29, 2007. The laboratory performed analysis for siloxanes by GC/MS. A sample volume of 1.0 uL was injected directly onto the GC column. Initial results are in ug/mL. The units are converted to total micrograms (ug) by multiplying the result (ug/mL) by the total volume (mL) contained in the impinger. See the data sheets for the reporting limits for each compound.

## Receiving Notes

The ice included in the sample shipment melted during transit, therefore the temperature at receipt was greater than 6 °C. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the analysis proceeded.

## Analytical Notes

Impinger volumes were measured at the laboratory using a graduated cylinder and documented in the analytical logbook.

Sampling volume was supplied by the client. A sample volume of 26.0 L was assumed for all QC samples.

## Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated Value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Summary of Detected Compounds
# SILOXANES - GC/MS

**Client Sample ID: 72122 (Front Half)**

**Lab ID#: 0703652C-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 43 | 560 | 520 | 6800 |
| Decamethylcylopentasiloxane (D5) | 34 | 410 | 520 | 6300 |

**Client Sample ID: 72122 (Front Half) Duplicate**

**Lab ID#: 0703652C-01AA**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 43 | 600 | 520 | 7200 |
| Decamethylcylopentasiloxane (D5) | 34 | 430 | 520 | 6500 |

**Client Sample ID: 72123 (Back Half)**

**Lab ID#: 0703652C-01B**

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 72122 (Front Half)**

**Lab ID#: 0703652C-01A**

**SILOXANES - GC/MS**

| | | | |
|---|---|---|---|
| **File Name:** | **k032915** | **Date of Collection:** | **3/28/07** |
| **Dil. Factor:** | **1.00** | **Date of Analysis:** | **3/29/07 06:34 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 43 | 560 | 520 | 6800 |
| Decamethylcylopentasiloxane (D5) | 34 | 410 | 520 | 6300 |
| Dodecamethylcyclohexasiloxane (D6) | 57 | Not Detected | 1000 | Not Detected |
| Hexamethyldisiloxane | 78 | Not Detected | 520 | Not Detected |
| Octamethyltrisiloxane | 54 | Not Detected | 520 | Not Detected |

**Air Sample Volume(L): 26.1**
**Impinger Total Volume(mL): 13.6**

**Container Type: Vial**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Hexamethyl disiloxane -d18 | 91 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 72122 (Front Half) Duplicate**

**Lab ID#: 0703652C-01AA**

**SILOXANES - GC/MS**

| | | | |
|---|---|---|---|
| **File Name:** | **k032917** | **Date of Collection:** | **3/28/07** |
| **Dil. Factor:** | **1.00** | **Date of Analysis:** | **3/29/07 07:22 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 43 | 600 | 520 | 7200 |
| Decamethylcylopentasiloxane (D5) | 34 | 430 | 520 | 6500 |
| Dodecamethylcyclohexasiloxane (D6) | 57 | Not Detected | 1000 | Not Detected |
| Hexamethyldisiloxane | 78 | Not Detected | 520 | Not Detected |
| Octamethyltrisiloxane | 54 | Not Detected | 520 | Not Detected |

**Air Sample Volume(L): 26.1**
**Impinger Total Volume(mL): 13.6**

**Container Type: Vial**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Hexamethyl disiloxane -d18 | 92 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 72123 (Back Half)**

**Lab ID#: 0703652C-01B**

**SILOXANES - GC/MS**

| | | | |
|---|---|---|---|
| **File Name:** | **k032916** | **Date of Collection:** | **3/28/07** |
| **Dil. Factor:** | **1.00** | **Date of Analysis:** | **3/29/07 06:58 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 48 | Not Detected | 580 | Not Detected |
| Decamethylcylopentasiloxane (D5) | 38 | Not Detected | 580 | Not Detected |
| Dodecamethylcyclohexasiloxane (D6) | 64 | Not Detected | 1200 | Not Detected |
| Hexamethyldisiloxane | 87 | Not Detected | 580 | Not Detected |
| Octamethyltrisiloxane | 60 | Not Detected | 580 | Not Detected |

**Air Sample Volume(L): 26.1**
**Impinger Total Volume(mL): 15.1**

**Container Type: Vial**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Hexamethyl disiloxane -d18 | 92 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652C-02A**

**SILOXANES - GC/MS**

| | | | |
|---|---|---|---|
| **File Name:** | **k032905** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/29/07 02:31 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane (D4) | 3.2 | Not Detected | 38 | Not Detected |
| Decamethylcylopentasiloxane (D5) | 2.5 | Not Detected | 38 | Not Detected |
| Dodecamethylcyclohexasiloxane (D6) | 4.2 | Not Detected | 77 | Not Detected |
| Hexamethyldisiloxane | 5.8 | Not Detected | 38 | Not Detected |
| Octamethyltrisiloxane | 4.0 | Not Detected | 38 | Not Detected |

**Air Sample Volume(L): 26.0**
**Impinger Total Volume(mL): 1.00**

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Hexamethyl disiloxane -d18 | 91 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652C-03A**

**SILOXANES - GC/MS**

| | | | |
|---|---|---|---|
| **File Name:** | **k032904** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/29/07 02:07 PM** | |

| Compound | %Recovery |
|---|---|
| Octamethylcyclotetrasiloxane (D4) | 94 |
| Decamethylcylopentasiloxane (D5) | 105 |
| Dodecamethylcyclohexasiloxane (D6) | Not Spiked |
| Hexamethyldisiloxane | 95 |
| Octamethyltrisiloxane | 93 |

**Air Sample Volume(L): 26.0**
**Impinger Total Volume(mL): 1.00**

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| Hexamethyl disiloxane -d18 | 95 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**
**Hours 8:00 A.M to 6:00 P.M. Pacific**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# WORK ORDER #: 0703652D

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 | **BILL TO:** | Mr. Mark Torresani<br>RMT, Inc.<br>744 Heartland Trail<br>Madison, WI 53717 |
| **PHONE:** | 608-831-4444 | **P.O. #** | 6198.04 |
| **FAX:** | 608-831-3334 | **PROJECT #** | 6198.04 Rodefeld Landfill |
| **DATE RECEIVED:** | 03/29/2007 | **CONTACT:** | Brandon Dunmore |
| **DATE COMPLETED:** | 04/02/2007 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. |
|---|---|---|---|
| 01A | 72124 | ASTM D-5504 | Tedlar Bag |
| 01AA | 72124 Duplicate | ASTM D-5504 | Tedlar Bag |
| 02A(on hold) | 72125 | ASTM D-5504 | Tedlar Bag |
| 03A | Lab Blank | ASTM D-5504 | NA |
| 04A | LCS | ASTM D-5504 | NA |

CERTIFIED BY: Linda D. Fruman DATE: 04/02/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards



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**LABORATORY NARRATIVE**
**ASTM D-5504**
**RMT, Inc.**
**Workorder# 0703652D**

Two 1 Liter Tedlar Bag samples were received on March 29, 2007. The laboratory performed the analysis of sulfur compounds via ASTM D-5504 using GC/SCD. The method involves direct injection of the air sample into the GC via a fixed 1.0 mL sampling loop. See the data sheets for the reporting limits for each compound.

## Receiving Notes

Sample 72125 was placed on hold per the client's request.

## Analytical Notes

Samples 72124 and 72124 Duplicate were received with insufficient time remaining to analyze within the method specified 24 hour hold time.

## Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# Summary of Detected Compounds
# SULFUR GASES BY ASTM D-5504 GC/SCD

**Client Sample ID: 72124**

**Lab ID#: 0703652D-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) |
|---|---|---|
| Hydrogen Sulfide | 2400 | 180000 |

**Client Sample ID: 72124 Duplicate**

**Lab ID#: 0703652D-01AA**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) |
|---|---|---|
| Hydrogen Sulfide | 2400 | 170000 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 72124**

**Lab ID#: 0703652D-01A**

**SULFUR GASES BY ASTM D-5504 GC/SCD**

| | | | |
|---|---|---|---|
| **File Name:** | **b032914** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **600** | **Date of Analysis: 3/29/07 02:14 PM** | |

| **Compound** | **Rpt. Limit (ppbv)** | **Amount (ppbv)** |
|---|---|---|
| Hydrogen Sulfide | 2400 | 180000 |

**Container Type: 1 Liter Tedlar Bag**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: 72124 Duplicate**

**Lab ID#: 0703652D-01AA**

**SULFUR GASES BY ASTM D-5504 GC/SCD**

| | | | |
|---|---|---|---|
| **File Name:** | **b032915** | **Date of Collection: 3/28/07** | |
| **Dil. Factor:** | **600** | **Date of Analysis: 3/29/07 02:35 PM** | |

| **Compound** | **Rpt. Limit (ppbv)** | **Amount (ppbv)** |
|---|---|---|
| Hydrogen Sulfide | 2400 | 170000 |

**Container Type: 1 Liter Tedlar Bag**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0703652D-03A**

**SULFUR GASES BY ASTM D-5504 GC/SCD**

| | | | |
|---|---|---|---|
| **File Name:** | **b032903** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/29/07 10:06 AM** | |

| **Compound** | **Rpt. Limit (ppbv)** | **Amount (ppbv)** |
|---|---|---|
| Hydrogen Sulfide | 4.0 | Not Detected |

**Container Type: NA - Not Applicable**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: LCS**

**Lab ID#: 0703652D-04A**

**SULFUR GASES BY ASTM D-5504 GC/SCD**

| | | | |
|---|---|---|---|
| **File Name:** | **b032902** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/29/07 09:04 AM** | |

| Compound | %Recovery |
|---|---|
| Hydrogen Sulfide | 97 |

**Container Type: NA - Not Applicable**