DANE COUNTY DEPARTMENT of PUBLIC WORKS, HIGHWAY and TRANSPORTATION

County Executive
Joseph T. Parisi

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

Commissioner / Director
Gerald J. Mandli

February 1, 2017

ATTENTION ALL REQUEST FOR PROPOSAL (RFP) HOLDERS

RFB NO. 316039 - ADDENDUM NO. 1

BIOGAS CLEANING EQUIPMENT FOR PIPELINE INJECTION

DANE COUNTY LANDFILL SITE #2

7102 U.S. HIGHWAY 12 & 18

MADISON, WISCONSIN

BIDS DUE: Tuesday, February 14, 2017, 2:00 PM.
DUE DATE AND TIME **ARE NOT** CHANGED BY THIS ADDENDUM

This Addendum is issued to modify, explain or clarify the original Request for Proposal (RFP) and is hereby made a part of the RFP. **Bidders must acknowledge this addendum on the bid form.**

PLEASE MAKE THE FOLLOWING CHANGES:

1. Requested Services and Business Information

a. Section 1 – General Information:

Existing Conditions: A flare is located on-site with the ability to handle peak landfill gas flow. Flare may be relocated closer to the system if deemed feasible and advantageous to the County.

Dane County did additional testing to determine the pressure at the test port used for analysis. A digital manometer and mechanical gauge were used on January 26, 2017 and showed a result of 3.1 psi. Use this value instead of the 0.3 psi given in the original RFP document.

The current blower for the system is from Houston Service Industries, Inc., Model No. 08811, Serial No. 0609177-30269, and Order No. 30269.

The current chiller for the system is from Xchanger Inc., Model No. Repl Core AA-2750 Xchanger P/N 44725, Serial No. 0509-B11526, and Order No. 2009-5462 (Dane County). Specifications for the current chiller are located in Appendix D.

Dane County uses waste heat to supply two (2) of the landfill buildings with heat during colder months. While not necessary, Dane County would be interested in proposals including waste heat off of the cleaning system for heat supply to the landfill buildings.

The current system uses a glycol and water mixture and exits the heat plate exchanger at approximately 190 °F for entry into the buildings. The mixture returns to the heat plate exchanger at approximately 170 °F.

b. Section 2 – Scope of Work, Paragraph B:

Site Work: Proposer will be responsible for the design of all site work required beyond the system or system skid. Dane County will be responsible for the construction of all site work prior to system installation. Proposer must indicate within proposal ALL civil site work (i.e. stone, landscaping, drainage, etc.), electrical power (i.e. amps/voltage, etc.), process piping (i.e. condensate discharge pipe, landfill gas piping, etc.), and mechanical (i.e. data /communications, temperature requirements, additional natural gas supply, etc.) required for the operation of the system or system skid. Dane County will provide all available existing condition site drawings to the winning proposer for site design.

Additional Infrastructure: If additional infrastructure is required (i.e. foundations, building, etc.), proposer shall indicate proposed infrastructure and rationale within the content of the proposal. If additional infrastructure is approved by County, Proposer will be responsible for the design of additional infrastructure. Dane County will provide winning proposer with all available drawings and/or information required for the design. Dane County will be responsible for the construction of all additional infrastructures prior to system installation.

Permitting: Dane County will be responsible for all permitting (i.e. surface water, air, erosion control, Plan of Operations modifications, etc.) required for this project.

Offsite Gas: A receiving station to accept offsite biogas is not part of this RFP.

Utility Interconnection: Dane County will be responsible for utility interconnection requirements. However, Dane County requires separate gas monitoring (i.e. compression, gas chromatograph, metering etc.) and piping for the monitoring of the cleaning system prior to the utility injection point. Proposers shall include monitoring and additional piping within this proposal. Proposers shall propose best interconnect location.

Base and Alternate Proposal: Base proposal shall include a system with operating ranges of 500 to 1750 scfm, alternative proposals for a more limited gas range deemed advantageous to the County will be considered. Alternate proposals shall outline all benefits of system having a limited range both qualitatively and quantitatively.

c. Section 3 – Proposal Content, Paragraph 4(a):

SHALL READ: “Size of footprint required for construction and final system. Locations of potential available space are shown in Figure 2;”

d. Section 3 – Proposal Content, Paragraph 4(k):

Dane County will own and operate facility. Proposer shall detail all training required for Dane County staff within this section.

e. Section 3 – Proposal Content, Paragraph 10:

SHALL READ:
List nine (9) fees for services **and** desired progress payment plan.

a. Stated as fixed fee for cleaning system design to meet, or exceed, ANR standards;
b. Stated as fixed fee for site work design;
c. Stated as fixed fee for additional infrastructure design, if deemed advantageous to the County;
d. Stated as fixed fee for system fabrication and delivery (f.o.b. Dane County Landfill Site #2);
e. Stated as fixed fee for system controls and electrical;
f. Stated as fixed fee for system installation;
g. Stated as fixed fee for initial system start-up, commissioning, staff training, etc.;
h. Stated as annual and peak energy consumption; and
i. Stated as annual labor hours and material cost for operations and maintenance."

2. Performance and Payment Bond
Performance and payment bond shall only be for delivery and installation of equipment.

3. Appendix B – Siloxane Gas Laboratory Results
Include within proposals consideration for siloxanes. Test sample was taken on January 10, 2017.

4. Appendix C – Historical Landfill Gas Laboratory Results
Appendix C, attached, is historical data on landfill gas laboratory results. Please note these laboratory results are from 2007.

5. Figure 2 – Potential Available Space
Figure 2, attached, to be made part of this RFP.

Enclosures
Figure 2 – Potential Available Space
Appendix B – Siloxane Gas Laboratory Results
Appendix C – Historical Landfill Gas Laboratory Results
Appendix D – Chiller Specifications

Receipt of the following addenda and inclusion of their provisions in this Proposal is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Signature _____

If any additional information about this Addendum is needed, please contact John Welch at (608) 516-4154, or Welch@countyofdane.com.

West-side Generation Buildings

Landfill Scale House

Potential System Location

Figure 2 – Potential Available Space

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE RIGHT-OF-WAY
- GRID LOCATION
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- EXISTING BUILDING
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TREES AND/OR BRUSH
- EXISTING WET AREA AND WETLAND LIMITS
- EXISTING EDGE OF WATER
- DRAINAGE DITCH
- EXISTING APPROVED LIMITS OF WASTE
- PROPOSED LIMITS OF WASTE
- PROPOSED PHASE DELINEATION LINE
- PROPOSED CELL DELINEATION LINE
- PROPOSED 10' BASE GRADE CONTOUR
- PROPOSED 2' BASE GRADE CONTOUR
- PROPOSED LEACHATE COLLECTION SUMP
- SLOPE AND DIRECTION
- PROPOSED PERFORATED GRADIENT CONTROL PIPE
- EXISTING SURVEY CONTROL MONUMENT
- EXISTING LEACHATE FORCEMAIN LINE
- EXISTING LEACHATE GRAVITY DRAIN LINE
- EXISTING SANITARY SEWER LINE
- PROPOSED NEW FORCEMAIN PIPE
- GRADIENT CONTROL GRADIENT LAYER

NOTES

1. REFER TO PLAN SHEET 2 OF THIS PLAN SET FOR BASEMAP LEGEND AND GENERAL NOTES.
2. REFER TO PLAN SHEET 2 OF THIS PLAN SET FOR LOCATIONS AND ELEVATIONS OF EXISTING CONTROL MONUMENTS.

SCALE: 1"=200'

NOTE: THESE PLANS ARE ACCOMPANIED BY A REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER. THESE DOCUMENTS ARE INTENDED TO BE USED FOR REGULATORY PURPOSES ONLY.

NOT FOR CONSTRUCTION

NO.	BY	DATE	REVISION	APP'D.
3.				
2.				
1.				

PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL
PLAN OF OPERATION - EASTERN EXPANSION
DANE COUNTY, WISCONSIN

SHEET TITLE: SUBBASE GRADES

DRAWN BY:	RNOLDEN	SCALE: AS SHOWN	PROJ. NO. 194528.0003.0000
CHECKED BY:	--		FILE NO. 194528.SHT04-SG.dwg
APPROVED BY:	--	DATE PRINTED:	SHEET 4 OF 33
DATE:	FEBRUARY 2014		

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

File Location: J:\Dane County LF\194528\0003 File Name: 194528.SHT04-SG Layout Name: SHEET 4
Plot Information: NONE NOLDEN, RANDY ---- ANSI A (8.50 X 11.00 INCHES) February 23, 2014 0.3869 K:\AUTOCAD_CONFIG\PLOTTERS\PLOT STYLES\RMT COLOR.CTB

APPENDIX B - SILOXANE GAS LABORATORY RESULTS

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

January 25, 2017

Chris Jimieson
SCS Engineers
2830 Dairy Drive
Madison, WI 53718

RE: Rodefeld Landfill / 25213005.03

Dear Chris:

Enclosed are the results of the sample submitted to our laboratory on January 12, 2017. For your reference, this analysis has been assigned our service request number P1700130.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 11:26 am, Jan 25, 2017

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: SCS Engineers
Project: Rodefeld Landfill / 25213005.03

Service Request No: P1700130

CASE NARRATIVE

The sample was received intact under chain of custody on January 12, 2017 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Siloxanes

The Anasorb tube sample was analyzed for Siloxanes according to laboratory SOP SVO-Siloxanes using an analytical system comprised of a gas chromatograph/mass spectrometer (GC/MS). This method is not included on the laboratory's NELAP or DoD-ELAP scope of accreditation.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1177034
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-16-7
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA016272016-6
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: SCS Engineers
Service Request: P1700130
Project ID: Rodefeld Landfill / 25213005.03

Date Received: 1/12/2017
Time Received: 09:50

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	ALS AQL 111 - Siloxanes Tube
Rodefeld LF West Blower	P1700130-001	Air	1/10/2017	15:45	X

Air - Chain of Custody Record & Analytical Service Request

Page _____ of _____

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10-Day-Standard

ALS Project No: P1700130

Company Name & Address (Reporting Information)	SCS Engineers 2830 Dairy Dr. Madison, WI 53718
Project Manager	Chris Jimieson
Phone / Fax	608 216-7307 /
Email Address for Result Reporting	cjimieson@scsengineers.com
Project Name	Rodefeld Landfill
Project Number	25213005.03
P.O. # / Billing Information	SCS Engineers 2830 Dairy Dr. Madison, WI 53718
Sampler (Print & Sign)	Paul A. Grover Paul A. Grover
ALS Contact:	

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method: Siloxanes		Comments e.g. Actual Preservative or specific instructions
Rodefeld LF West Blower		1/10/17	3:15 to 3:45					6 Liter			

5 of 9

Report Tier Levels - please select

Tier I - Results (Default in not specified) _____
Tier II (Results + QC Summaries) _____
Tier III (Results + QC & Calibration Summaries) _____
Tier IV (Date Validation Package) 10% Surcharge _____

EDD required YES / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature) Paul A. Grover	Date: 1-16-17	Time: 18:30	Received by: (Signature)	Date: 1/12/17	Time: 0750	Cooler / Blank Temperature _____°C
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	

ALS Environmental
Sample Acceptance Check Form

Client: SCS Engineers Work order: P1700130

Project: Rodefeld Landfill / 25213005.03

Sample(s) received on: 1/12/17 Date opened: 1/12/17 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☒	☐	☐
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1700130-001.01	Tube, Siloxane					

Explain any discrepancies: (include lab sample ID numbers):

Sample received was very odorous.

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **SCS Engineers**
Client Sample ID: **Rodefeld LF West Blower**
Client Project ID: **Rodefeld Landfill / 25213005.03**

ALS Project ID: P1700130
ALS Sample ID: P1700130-001

Test Code: GC/MS
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Evelyn Alvarez
Sample Type: Siloxane Tube
Test Notes: **BC, DE**

Date Collected: 1/10/17
Date Received: 1/12/17
Date Analyzed: 1/19/17
Desorption Volume: 3.0 ml
Volume Sampled: 6 Liter(s)

CAS #	Compound	Result µg/Tube	Result µg/m³	MRL µg/m³	Result as Silicon µg/m³	MRL µg/m³	Data Qualifier
1066-40-6	Trimethylsilanol	100	**17,000**	55	**5,200**	17	
107-46-0	Hexamethyldisiloxane (L_2)	21	**3,400**	51	**1,200**	18	
541-05-9	Hexamethylcyclotrisiloxane (D_3)	9.2	**1,500**	50	**580**	19	
107-51-7	Octamethyltrisiloxane (L_3)	2.2	**370**	47	**130**	17	
556-67-2	Octamethylcyclotetrasiloxane (D_4)	41	**6,800**	48	**2,600**	18	
141-62-8	Decamethyltetrasiloxane (L_4)	< 0.28	ND	47	ND	17	
541-02-6	Decamethylcyclopentasiloxane (D_5)	6.0	**1,000**	47	**380**	18	
141-63-9	Dodecamethylpentasiloxane (L_5)	< 0.30	ND	50	ND	18	
540-97-6	Dodecamethylcyclohexasiloxane (D_6)	< 0.28	ND	47	ND	18	
	Total Silicon				**10,000**		

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
BC = Results reported are not blank corrected.
DE = Results reported are corrected for desorption efficiency.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **SCS Engineers**
Client Sample ID: **Method Blank**
Client Project ID: **Rodefeld Landfill / 25213005.03**

ALS Project ID: P1700130
ALS Sample ID: P170119-MB

Test Code: GC/MS
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2
Analyst: Evelyn Alvarez
Sample Type: Siloxane Tube
Test Notes: **BC, DE**

Date Collected: NA
Date Received: NA
Date Analyzed: 1/19/17
Desorption Volume: 3.0 ml
Volume Sampled: NA Liter(s)

CAS #	Compound	Result µg/Tube	Result µg/m³	MRL µg/m³	Result as Silicon µg/m³	MRL µg/m³	Data Qualifier
1066-40-6	Trimethylsilanol	< 0.33	NA	NA	NA	NA	
107-46-0	Hexamethyldisiloxane (L_2)	< 0.31	NA	NA	NA	NA	
541-05-9	Hexamethylcyclotrisiloxane (D_3)	< 0.30	NA	NA	NA	NA	
107-51-7	Octamethyltrisiloxane (L_3)	< 0.28	NA	NA	NA	NA	
556-67-2	Octamethylcyclotetrasiloxane (D_4)	< 0.29	NA	NA	NA	NA	
141-62-8	Decamethyltetrasiloxane (L_4)	< 0.28	NA	NA	NA	NA	
541-02-6	Decamethylcyclopentasiloxane (D_5)	< 0.28	NA	NA	NA	NA	
141-63-9	Dodecamethylpentasiloxane (L_5)	< 0.30	NA	NA	NA	NA	
540-97-6	Dodecamethylcyclohexasiloxane (D_6)	< 0.28	NA	NA	NA	NA	
	Total Silicon				NA		

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
NA = Not applicable.
BC = Results reported are not blank corrected.
DE = Results reported are corrected for desorption efficiency.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client: **SCS Engineers**
Client Sample ID: **Duplicate Lab Control Sample** ALS Project ID: P1700130
Client Project ID: **Rodefeld Landfill / 25213005.03** ALS Sample ID: P170119-DLCS

Test Code: GC/MS Date Collected: NA
Instrument ID: Tekmar AUTOCAN/HP5972/HP5890 II+/MS2 Date Received: NA
Analyst: Evelyn Alvarez Date Analyzed: 1/19/17
Sampling Type: Siloxane Tube Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount LCS / DLCS µg/ml	Result LCS µg/ml	Result DLCS µg/ml	% Recovery LCS	% Recovery DLCS	ALS Acceptance Limits	RPD	RPD Limit	Data Qualifier
1066-40-6	Trimethylsilanol	9.89	8.70	9.35	**88**	**95**	70-130	8	30	
107-46-0	Hexamethyldisiloxane	10.6	10.7	11.5	**101**	**108**	70-130	7	30	
541-05-9	Hexamethylcyclotrisiloxane	11.2	10.9	11.8	**97**	**105**	70-130	8	30	
107-51-7	Octamethyltrisiloxane	11.3	11.3	12.2	**100**	**108**	70-130	8	30	
556-67-2	Octamethylcyclotetrasiloxane	11.3	11.4	12.2	**101**	**108**	70-130	7	30	
141-62-8	Decamethyltetrasiloxane	11.2	11.3	12.4	**101**	**111**	70-130	9	30	
541-02-6	Decamethylcyclopentasiloxane	10.7	10.9	11.8	**102**	**110**	70-130	8	30	
141-63-9	Dodecamethylpentasiloxane	11.2	11.6	12.6	**104**	**113**	70-130	8	30	
540-97-6	Dodecamethylcyclohexasiloxane	10.9	11.1	12.1	**102**	**111**	70-130	8	30	

APPENDIX C - HISTORICAL GAS LABORATORY RESULTS

Air Toxics LTD.

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

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0703652A

Work Order Summary

CLIENT:	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail Madison, WI 53717	**BILL TO:**	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail 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: _____ 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

Air Toxics LTD.

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

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

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

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WORK ORDER #: 0703652B

Work Order Summary

CLIENT:	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail Madison, WI 53717	**BILL TO:**	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail 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

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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

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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

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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

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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

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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

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WORK ORDER #: 0703652C

Work Order Summary

CLIENT:	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail Madison, WI 53717	**BILL TO:**	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail 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 S. Thomas

Laboratory Director

DATE: 04/03/07

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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

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.

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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

Air Toxics LTD.

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

Air Toxics LTD.

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

Air Toxics LTD.

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

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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

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WORK ORDER #: 0703652D

Work Order Summary

CLIENT:	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail Madison, WI 53717	**BILL TO:**	Mr. Mark Torresani RMT, Inc. 744 Heartland Trail 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. Truman 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

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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

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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

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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

Air Toxics LTD.

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

APPENDIX D – CHILLER SPECIFICATIONS

Xchanger, Inc. **Rating for Model AA-2750 ref #93348**

Engineer: Paul Boedecker April 15, 2009

Prepared for:

Unison Solutions

Dane County

PERFORMANCE	**PROCESS GAS**	**AMBIENT AIR**
Fluid Circulated	LFG	Air
Volumetric Flow Rate	2,000 Std. ft^3/min	3,685 Std. ft^3/min
Total Fluid Entering	8,460 lb/hr	16,582 lb/hr
Liquid		
Vapor		
Non-Condensibles	8,460 lb/hr	16,582 lb/hr
Vaporized or (Cond.)		
Temperature In	205 °F	90 °F
Temperature Out	120 °F	151 °F
Inlet Pressure (Absolute)	18.4 lb/in²	14.2 lb/in²
Velocity (Standard)	1,977 ft/min	879 ft/min
Pressure Loss	0.14 lb/in²	1.1 in. water
Fouling Factor	0.0001 ft²-°F-hr/BTU	0.0001 ft²-°F-hr/BTU

Total Heat Exchanged: 243,634 BTU/hr

PROPERTIES		
Thermal Conductivity	0.0180 BTU/hr-ft-°F	0.016 BTU/hr-ft-°F
Specific Heat	0.3370 BTU/lb-°F	0.240 BTU/lb-°F
Viscosity	0.0370 lb/ft-hr	0.047 lb/ft-hr
Density	0.0752 lb/ft^3	0.066 lb/ft^3
Latent Heat of Vapor		

CONSTRUCTION		
Design Temperature	250 °F	Not Applicable
Design Pressure (Gauge)	15 lb/in²	Not Applicable
Test Pressure (Gauge)	15 lb/in²	Not Applicable
Cyclic Pressure	No	Not Applicable
Flow Direction	Right Hand Horizontal	Horizontal - Blow Through
Coating	None	None

Plate-Fin Core	: Aluminum	Fan Hood	: Galvanized Steel
Fan Guard	: Coated Carbon Steel	Venturi Frame	: Coated Carbon Steel
Drawing Number	:	Weight	: 410 lb

CONNECTIONS

Process Inlet : 10 inch 150 lb. ANSI RFF

Process Outlet : 10 inch 150 lb. ANSI RFF

Instrument :

MECHANICAL EQUIPMENT

Fan Diameter	: 24 inch	Motor	: 2.00 HP XPID
Fan Qty/Speed	: 1 / 1725 RPM	Motor Qty/Speed	: 1 / 1725 RPM
Fan Type	: 4 Blade Aluminum	Motor Electrical	: 230-460/3/60

NOTES

Approximate unit dimensions (inches): A = 30, B = 66, C = 42

Construction material suitability must be determined by customer.

The process flow must be uniform, smooth and free of pulsation.

This unit is not designed for cycling process gas pressure.

A motor access panel is included in the fan hood.

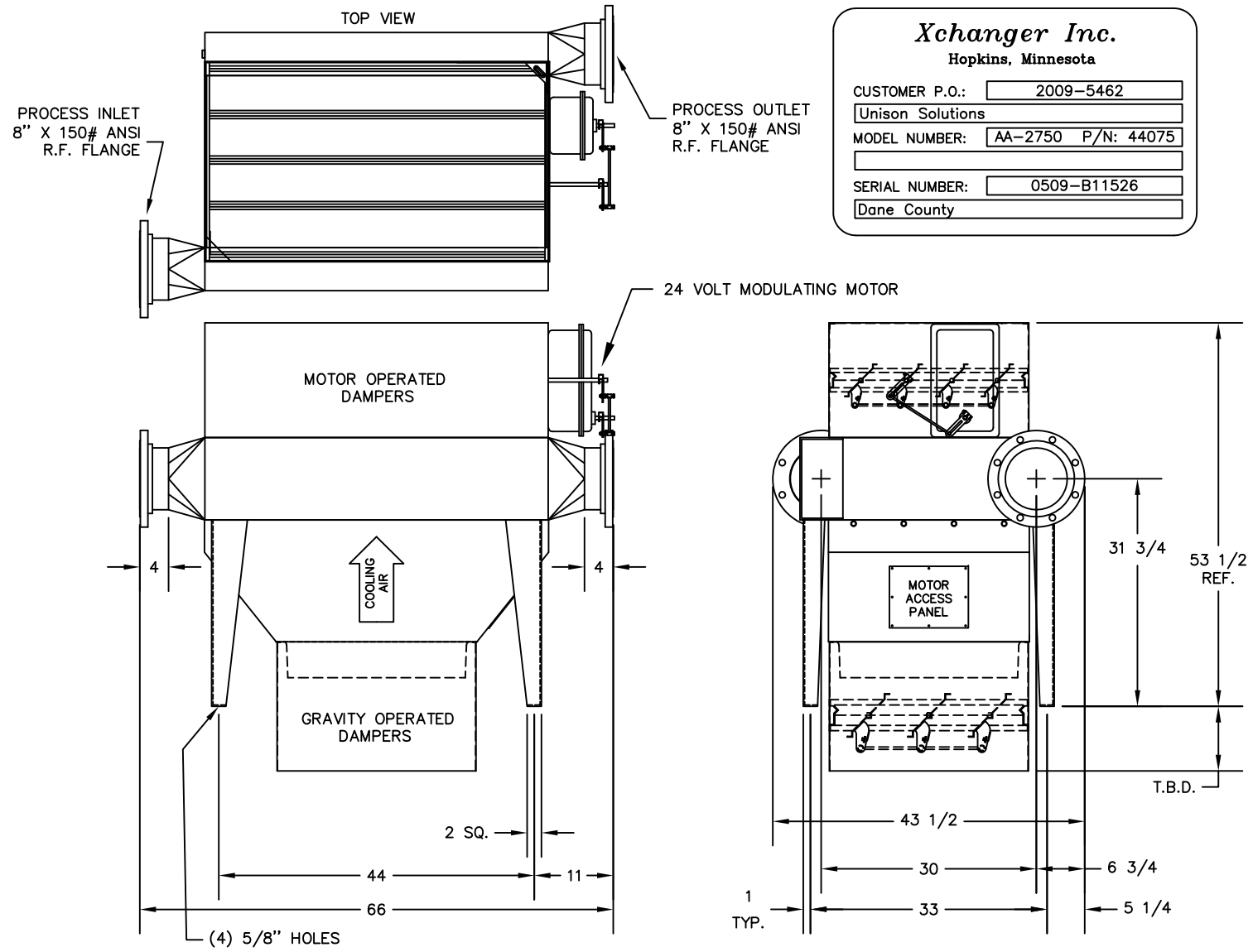
CERTIFIED
DRAWING
Date: 08/05/09

44075

PERFORMANCE AND CONSTRUCTION PER DATA SHEET #93977
QUANTITY OF – 1 – REQUIRED

Xchanger Inc.
Hopkins, Minnesota

CUSTOMER P.O.:	2009–5462
Unison Solutions	
MODEL NUMBER:	AA–2750 P/N: 44075
SERIAL NUMBER:	0509–B11526
Dane County	



TOLERANCES (UNLESS OTHERWISE NOTED)	Xchanger Inc. 1401 SOUTH 7TH ST HOPKINS, MN 55343	MODEL AA–2750 HEAT EXCHANGER ASSEMBLY				
DECIMAL ± .25	FRACTIONAL ± 1/4	DRAWN BY: MHA REVIEWED BY: .	SCALE: NONE DATE: 08/5/09	JOB NUMBER B11526	SHEET 1 OF 1	DRAWING NUMBER 44075	REV. C