

DAT Reports®

Data Analysis Technologies, Inc.

7715 Corporate Blvd.
Plain City, OH 43064
800-733-8644

Sample Analysis Certificate

Client: Atmospheric Analysis & Consulting, Inc. Date: 6/24/2013
Address: 1534 Eastman Avenue, Suite A DAT Project ID: 0613005
Ventura, CA 93003 Date Received: 6/5/2013

Attn: Eric Grosjean
Client Project: 130650
Analysis: Method NIOSH - 2010 Amines

The following samples were received on 6/5/2013:

DAT Sample ID	Client Sample ID	Date Sampled	Matrix
0613005-01	130650-63207 BZ-1	5/29/2013	226-10
0613005-02	130650-63216 BZ-2	5/29/2013	226-10
0613005-03	130650-63225 U-1	5/29/2013	226-10
0613005-04	130650-63234 U-2	5/29/2013	226-10
0613005-05	130650-63243 D-1	5/29/2013	226-10
0613005-06	130650-63252 D-2	5/29/2013	226-10
0613005-07	130650-63260 Trip Blank	5/29/2013	226-10

Results: See attached summary.
QC: Met the criteria for the method.

Reviewed and approved for release by:



Ronald K. Mitchum, Ph.D.
President, DAT

Date: 6/24/2013



ATMOSPHERIC ANALYSIS & CONSULTING, INC.
 1534 Eastman Avenue, Suite A
 Ventura, California 93003
 Phone (805) 650-1642 Fax (805) 650-1644
 E-mail: info@aacilab.com

AAC Project No.
 Subcontractor Lab:
 Ronald Mitchum
DAT Laboratory
7715 Corporate Blvd.
Plain City, OH 43064
 800-733-8644

Fedex STDOVN

Terms are pay when payed

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client Name AAC, Inc.		Project Name Landfill		Analysis Requested		Send Report:	
Project Mgr (Print Name) Eric Grosjean		Project Number 130650		NIOSH Method 2010 Aliphatic Amines		Attrn: Eric Grosjean	
Sampler's Name (Print Name)		Sampler's Signature		Type/No. of containers		Phone #: 805-650-1642	
AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description		Fax #:	Send Invoice to:
130650-63207	05/29/13		Tube	BZ-1	1	805-650-1644	Attrn: Eric Grosjean
130650-63216	05/29/13		Tube	BZ-2	1		Phone #: 805-650-1642
130650-63225	05/29/13		Tube	U-1	1		Send Invoice to:
130650-63234	05/29/13		Tube	U-2	1		Attrn: Eric Grosjean
130650-63243	05/29/13		Tube	D-1	1		egrosjean@aacilab.com
130650-63252	05/29/13		Tube	D-2	1		P.O. # NA
130650-63260	05/29/13		Tube	Trip Blank	1		Turn Around Time 24-Hr 48-Hr
							5 day Normal X
							Other (Specify)
							Special Instructions / remarks:
							Please provide Level IV Data Package
							Please report in ppbv and ug/m ³ and email Excel spreadsheet
Relinquished by (Signature)		Print name: Eric Grosjean		Date/Time 06/04/13 9:55		Received by (Signature)	
Relinquished by (Signature)		Print name:		Date/Time 6-5-13 0920		Received by (Signature) Junda S. Li	

06B005

AAC Sample No.	Sample Name	Date	Parameter	Description	Volume (Liters)
130650-63207	BZ-1-Amines	5/29/2013	Amines	ONSITE Ambient	30.4
130650-63216	BZ-2-Amines	5/29/2013	Amines	ONSITE Ambient	20.8
130650-63225	U-1-Amines	5/29/2013	Amines	Off-site Ambient	32.1
130650-63234	U-2-Amines	5/29/2013	Amines	Off-site Ambient	26.3
130650-63243	D-1-Amines	5/29/2013	Amines	Off-site Ambient	35.0
130650-63252	D-2-Amines	5/29/2013	Amines	Off-site Ambient	29.4

0613005

DAT SAMPLE RECEIVING

7715 Corporate Blvd. Plain City, OH 43064.

Project Number: 0613005

Date Received: 6/5/2013
Client Name: Atmospheric analysis &
Tracking number: 799919741566
Custody Seals ?: No

Carrier: Fed-X overnight
Analysis: M2010 Amines
Package Temp: 1.1°C (IcePak-Cooler)
COC: check if COC from client

Sample Information

Client ID:	Laboratory ID	Date	Matrix:	Container:	Comment:
130650-63207 BZ-1	0613005-01	5/29/2013	226-10	SKC Tube	
130650-63216 BZ-2	0613005-02	5/29/2013	226-10	SKC Tube	
130650-63225 U-1	0613005-03	5/29/2013	226-10	SKC Tube	
130650-63234 U-2	0613005-04	5/29/2013	226-10	SKC Tube	
130650-63243 D-1	0613005-05	5/29/2013	226-10	SKC Tube	
130650-63252 D-2	0613005-06	5/29/2013	226-10	SKC Tube	
130650-63260 Trip Blank	0613005-07	5/29/2013	226-10	SKC Tube	

Laboratory Receiving Initials

0613005

6/5/2013 9:40:49 AM

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Data Analysis Technologies, Inc.
7715 Corporate Boulevard
Plain City, OH 43064

Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63207 BZ-1	0613005-01	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63216 BZ-2	0613005-02	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63225 U-1	0613005-03	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63234 U-2	0613005-04	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63243 D-1	0613005-05	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63252 D-2	0613005-06	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
130650-63260 Trip Blank	0613005-07	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

QC Parameters

Blank: Used to assess the suitability of the analysis system

Laboratory spike: Used to assess accuracy of the analysis system for the associated analytes.

Laboratory spike duplicate: Used to assess the precision of the analysis system for all analytes.

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill-130650
DAT Project: 0613005
Date Sampled: 5/29/2013
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Back, ug/mL	Sample PQL, Total ug	Total ug Q
	0613005-MB	Methylamine	0	0	5.0	ND(5)
		Dimethylamine	0	0	5.0	ND(5)
		Ethylamine	0	0	5.0	ND(5)
		Trimethylamine	0	0	5.0	ND(5)
		Diethylamine	0	0	5.0	ND(5)
		Butylamine	0	0	5.0	ND(5)
		Triethylamine	0	0	5.0	ND(5)
		Dibutylamine	0	0	5.0	ND(5)

Total ug= sum of front half and back half

ND(xx)= Not detected at or above the PQL

All values blank subtracted

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Data Summary

NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0613005
Date Sampled: NA
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Sample PQL, Total ug	Total ug	%R	Q
	0613005-LCS	Methylamine	45.31	5.0	45.3	90.6	
		Dimethylamine	44.13	5.0	44.1	88.3	
		Ethylamine	35.93	5.0	35.9	71.9	
		Trimethylamine	31.1	5.0	31.1	62.2	
		Diethylamine	29.2	5.0	29.2	58.4	
		Butylamine	31.07	5.0	31.1	62.1	
		Triethylamine	14.34	5.0	14.3	28.7	
		Dibutylamine	21.96	5.0	22.0	43.9	

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NIOSH 2010

Client: AAC, Inc.
Client Project: Landfill
DAT Project: 0613005
Date Sampled: NA
Analyst: sm

Client Sample ID	DAT sample ID	Analyte:	Front ug/mL	Sample PQL, Total ug	Total ug	%R	Q
	0613005-LCSD	Methylamine	52.86	5.0	52.9	105.7	
		Dimethylamine	51	5.0	51.0	102.0	
		Ethylamine	43.7	5.0	43.7	87.4	
		Trimethylamine	41.17	5.0	41.2	82.3	
		Diethylamine	41.067	5.0	41.1	82.1	
		Butylamine	48.25	5.0	48.3	96.5	
		Triethylamine	21.4	5.0	21.4	42.8	
		Dibutylamine	35.41	5.0	35.4	70.8	