

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications
INVENTORY SHEET

WORK ORDER # 0910023A

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Completed by:

Kara McKiernan

(Signature)

Kara McKiernan/ Document Control

(Print Name & Title)

10/21/09

(Date)

WORK ORDER #: 0910023A

Work Order Summary

CLIENT:	Mr. Taeko Minegishi Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	BILL TO:	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	P.O. #	16512
FAX:	781-247-4305	PROJECT #	16512
DATE RECEIVED:	10/01/2009	CONTACT:	Ausha Scott
DATE COMPLETED:	10/20/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	101856	ATL Applications
02A	101857	ATL Applications
03A	101858	ATL Applications
03AA	101858 Lab Duplicate	ATL Applications
04A	101859	ATL Applications
05A	101860	ATL Applications
06A	101861	ATL Applications
07A	101862	ATL Applications
08A	101886	ATL Applications
09A	101887	ATL Applications
10A	101888	ATL Applications
10AA	101888 Lab Duplicate	ATL Applications
11A	101889	ATL Applications
12A	101890	ATL Applications
13A	101891	ATL Applications
14A	101795	ATL Applications
15A	101796	ATL Applications
16A	101797	ATL Applications

Continued on next page

WORK ORDER #: 0910023A

Work Order Summary

CLIENT: Mr. Taeko Minegishi
Environmental Health & Engineering,
Inc.
117 Fourth Avenue
Needham, MA 02494

BILL TO: Accounts Payable
Environmental Health & Engineering,
Inc.
117 Fourth Avenue
Needham, MA 02494

PHONE: 800-825-5343 **P.O. #** 16512

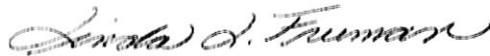
FAX: 781-247-4305 **PROJECT #** 16512

DATE RECEIVED: 10/01/2009 **CONTACT:** Ausha Scott

DATE COMPLETED: 10/20/2009

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
17A	Lab Blank	ATL Applications
17B	Lab Blank	ATL Applications
18A	CCV	ATL Applications

CERTIFIED BY:



Laboratory Director

DATE: 10/20/09

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

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

LABORATORY NARRATIVE
Ozone by Radiello 172
Environmental Health & Engineering, Inc.
Workorder# 0910023A

Sixteen Radiello 172 (Ozone) samples were received on October 01, 2009. The procedure involves reaction of 4-pyridylaldehyde with 3-methyl-2-benzothiazolinone hydrazone to yield the corresponding azide. The absorbance is then measured at 430 nm using a spectrophotometer. Results are reported in uG and uG/m³.

Sampling rate of 24.6 mL/min was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 20160 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

The % RPD for the duplicate analysis of samples 101858 and 101888 is at 16% and 22% respectively.

Definition of Data Qualifying Flags

Eight 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.
- 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

Sample Results and Raw Data

ATL Application # 62 for RAD 172 (Ozone)

Spectrophotometer

Field Sample ID.	Lab Sample ID.	Collection Date	Analysis Date	Dilution Factor	Reporting Limit (ug)	Reporting Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
101856	0910023A-01A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101857	0910023A-02A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101858	0910023A-03A	9/30/2009	10/5/2009	1.00	0.64	1.3	8.4	17
101858 Lab Duplicate	0910023A-03AA	9/30/2009	10/5/2009	1.00	0.64	1.3	10	21
101859	0910023A-04A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101860	0910023A-05A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101861	0910023A-06A	NA	10/5/2009	1.00	0.6	1.3	ND	ND
101862	0910023A-07A	NA	10/5/2009	1.00	0.64	1.3	ND	ND
101886	0910023A-08A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101887	0910023A-09A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101888	0910023A-10A	9/30/2009	10/5/2009	1.00	0.64	1.3	7.5	15
101888 Lab Duplicate	0910023A-10AA	9/30/2009	10/5/2009	1.00	0.6	1.3	9.4	19
101889	0910023A-11A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101890	0910023A-12A	9/30/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101891	0910023A-13A	NA	10/5/2009	1.00	0.64	1.3	ND	ND
101795	0910023A-14A	9/29/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101796	0910023A-15A	9/29/2009	10/5/2009	1.00	0.64	1.3	ND	ND
101797	0910023A-16A	9/29/2009	10/5/2009	1.00	0.64	1.3	7.0	14
Method Blank	0910023A-17A	NA	10/5/2009	1.00	0.64	1.3	ND	ND
Method Blank	0910023A-17B	NA	10/5/2009	1.00	0.64	1.3	ND	ND
CCV	0910023A-18A	NA	10/5/2009	1.00	0.64	1.3	%Rec 103	

COMMENTS: 1. NA=Not Applicable

2. ND=Not Detected

3. Exposure time of 20160 minutes was assumed for the QC samples.

4. Background subtraction not performed.

Ozone Radiello Calculation Worksheet

Workorder #: **0910023A**

Sampling Rate (ml/min)) 24.6 Typically 24.6 for Ozone

Sampling T (deg C) 25 Typically 25

Volume (ml) 5 Typically 5 for Ozone

Date of Analysis: 10/5/2009

(Abs-Y-int)XDF
Slope

Conc (ug) x 1000000
Q x Duration

Low PointXDF

LabSampleID	Corrected Q	Client	Ozone taking into account Temp	Abs	Duration (min)	DF	Ozone Conc (ug)	Conc (ug/m3)	RI(ug)
01A	24.6	101856	9/30/2009	0.055	20160	1.00	0.356033365	0.718	0.638
02A		101857	9/30/2009	0.029	20160	1.00	0.115007702	0.232	0.638
03A		101858	9/30/2009	0.975	20160	1.00	8.421122865	16.980	0.638
03AA		101858 Lab Duplicate		1.129	20160	1.00	10.3122473	20.794	0.638
04A		101599	9/30/2009	0.038	20160	1.00	0.198439663	0.400	0.638
05A		101860	9/30/2009	0.03	20160	1.00	0.12427792	0.251	0.638
06A		101861	NA	0.019	20160	1.00	0.022305524	0.045	0.638
07A		101862	NA	0.018	20160	1.00	0.013035306	0.026	0.638
08A		101886	9/30/2009	0.032	20160	1.00	0.142818356	0.288	0.638
09A		101887	9/30/2009	0.035	20160	1.00	0.170629009	0.344	0.638
10A		101888	9/30/2009	0.828	20160	1.00	7.521911737	15.167	0.638
10AA		101888 Lab Duplicate		1.035	20160	1.00	9.440846824	19.036	0.638
11A		101889	9/30/2009	0.032	20160	1.00	0.142818356	0.288	0.638
12A		101890	9/30/2009	0.028	20160	1.00	0.105737484	0.213	0.638
13A		101891	NA	0.007	20160	1.00	-0.08893709	-0.179	0.638
14A		101795	9/29/2009	0.028	20160	1.00	0.105737484	0.213	0.638
15A		101796	9/29/2009	0.033	20160	1.00	0.152088574	0.307	0.638
16A		101797	9/29/2009	0.772	20160	1.00	7.002779539	14.120	0.638
17A		Method Blank	NA	0.011	20160	1.00	-0.153828614	#DIV/0!	0.638
17B		Method Blank	NA	0.01	20160	1.00	-0.051856218	-0.105	0.638
18A		Method Blank	NA	N/A	20160	1.00	-0.061126436	-0.123	0.638
		CCV	NA	0.301	20160	1.00	2.636506948	5.316	0.638

QC Duration
20160

CCV Spike Amt
2.5536

QC Results and Raw Data

Work Order: 0910023A

Date: 10/5/09

Method: Rad 17a

Analyst: M. Skidmore

Wavelength: 430 nm

Standard ID	Concentration	ABS
	(Concentration of 4-PA)	
Level 1 1858-74-E	5.7 µg/mL	0.077
Level 2 -D	11.4 µg/mL	0.152
Level 3 -C	22.8 µg/mL	0.298
Level 4 -B	57 µg/mL	0.716
Level 5 -A	114 µg/mL	1.388
ICV 1858-76	22.8 µg/mL	0.295

$r = 0.9998$
 $m = 0.1079$
 $b = 0.0166$

ICV % Recovery = 101

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
01A	1.00	0.055	101856	5.0 mL	
02A		0.029	101857		
03A		0.025	101858		
03AA		1.129	101858		
04A		0.038	101859		
05A		0.030	101860		
06A		0.019	101861		
07A		0.018	101862		
08A		0.032	101886		
09A		0.035	101887		
10A		0.828	101888		
10AA		1.035	101888		
11A		0.032	101889		
12A		0.028	101890		
13A		0.007	101891		
14A		0.028	101795		
15A		0.033	101796		
16A		0.772	101797		
BIK		0.011	N/A		Lot: 09165
BIK		0.010			
LCS		0.298 ^{0.10166} 0.273			
CCV		0.301			

Procedure:


Signed

10/5/09
Date

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1858

Standard ID: 1858-73

Project: Rad 172 MBTH Solution

Analyst: M. Skidmore

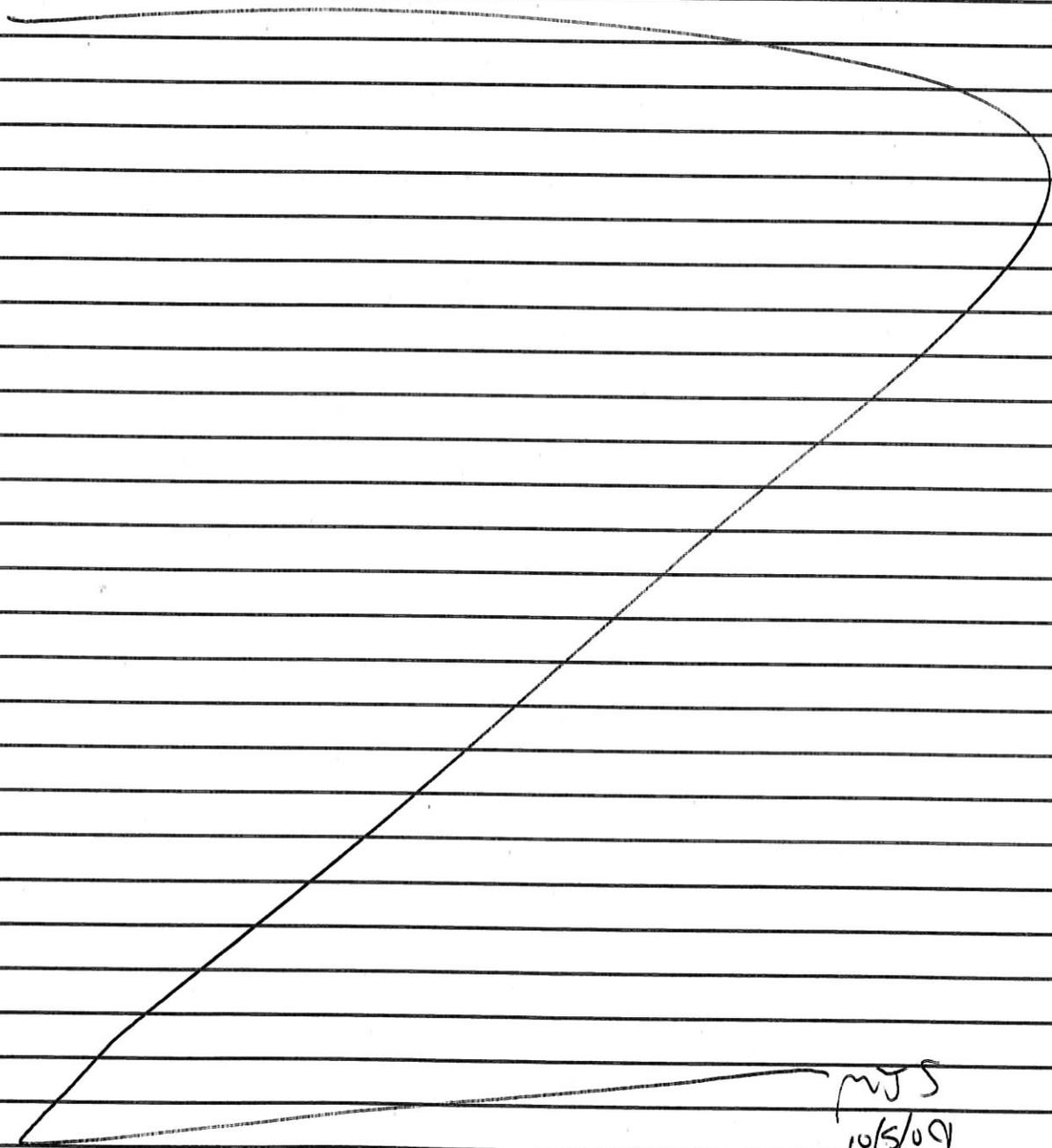
Preparation Date: 10/5/09

Expiration Date: 10/5/09

Solvent: H₂O/H₂SO₄

Solvent Lot #: H₂SO₄ lot: 93396TJ

Procedure/Comments: Dissolve 2.5 g of 3-methyl-2-benzothiazolinone hydrazone hydrochloride hydrate, 97% (1476-1106, located ERIA) into 500ml DI H₂O and add 2.5ml of concentrated sulfuric acid. (1476-1198)



MJS
10/5/09

M. Skidmore 10/5/09
Signed Date

[Signature] 10/7/09
Reviewed Date

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1858

Standard ID: 1858-74
Project: Calibration Solution Rad 172
Analyst: M. Skidmore
Preparation Date: 10/5/09
Expiration Date: 10/5/09

Solvent: D.I. H₂O
Solvent Lot #: N/A

Procedure/Comments: _____

Dissolve 20 µl of 4-Pyridine-carboxaldehyde, 97% (1476-1103, located F22H) in 200mL D.I. H₂O. From this solution prepare dilutions at 1:2, 1:5, 1:10, 1:20. Stock Solution = 114 µg/mL.

1:2) 250 µl Pyridine solution with 250 µl of D.I. H₂O = 57 µg/mL.

1:5) 100 µl Pyridine solution with 400 µl of D.I. H₂O = 22.8 µg/mL.

1:10) 100 µl Pyridine solution with 900 µl of D.I. H₂O = 11.4 µg/mL

1:20) 250 µl Pyridine 1:10 solution with 250 µl of D.I. H₂O = 5.7 µg/mL
(Then remove 250 µl of 1:10 solution to yield a final volume of 0.5 mL)

MJS
10/5/09

Then add 4.5 mL of MBTH solution to each level, stir and let stand for 1 hour (cover with parafilm). Then read absorbance at 430 nm.

Note: 1 µg of 4-pyridylaldehyde = 0.224 µg of ozone.

MJS
10/5/09

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1858

Standard ID: 1858-76

Solvent: D.I. H₂O

Project: ICV RAD172

Solvent Lot #: N/A

Analyst: C.leaf

Preparation Date: 10/5/09

Expiration Date: 10/5/09

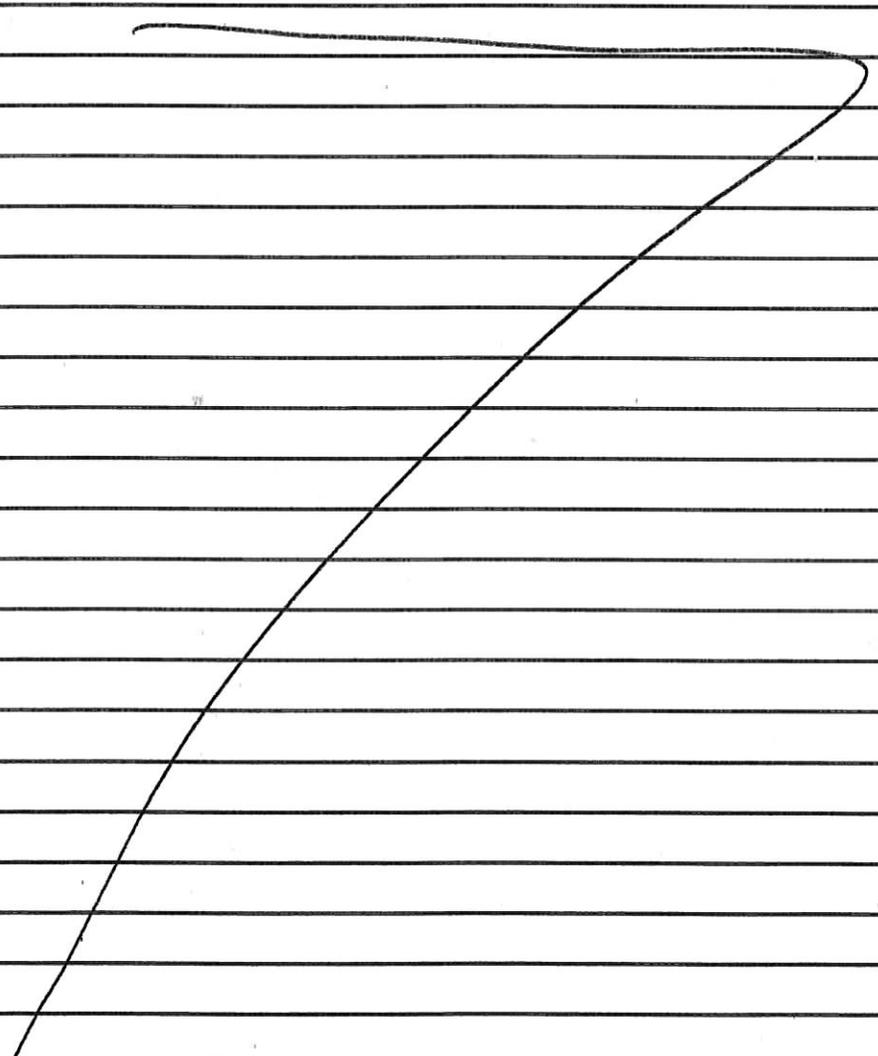
Procedure/Comments: _____

Dissolve 20 µl of 4-Pyridine-carboxaldehyde, 97% (1476-1103, located F22H) in 200mL D.I. H₂O. Stock Solution = 114 µg/mL. From this solution prepare a dilution at:

1:5) 100 µl Pyridine solution with 400 µl of D.I. H₂O = 22.8 µg/mL.

Then add 4.5 mL of MBTH solution to each level, stir and let stand for 1 hour (cover with parafilm). Then read absorbance at 430 nm.

Note: 1 µg of 4-pyridylaldehyde = 0.224 µg of ozone.



CRE 10/5/09

C.leaf
Signed

10/5/09
Date

[Signature]
Reviewed

10/7/09
Date

Shipping/ Receiving Documents

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

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

COMPANY: Environmental Health & Engineering, Inc.
ATTENTION: Mr. Taeko Minegishi
FAX #: 781-247-4305
FROM: Sample Receiving
Workorder #: 0910023A
of pages (Including Cover): 4

10/21/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.** ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

Your prompt response is appreciated.

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Air Toxics

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 16512

The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	Start	OTHER: Time/Date/Vol.	Stop
01A 101856	Air/Passive	O ₃ Analysis	9/16/09	9/30/09	
02A 101857	↓	↓	↓	↓	↓
03A 101858					
04A 101859					
05A 101860					
06A 101861					
07A 101862					
08A 101886					
09A 101887					
10A 101888					
11A 101889					
12A 101890					
13A 101891					
14A 101795					
15A 101796					
16A 101797					

Special Instructions:

- Standard turn around time
- Fax results 781-247-4305
- RETURN SAMPLES
- Additional report recipient M. Fragala @ eheinc.com
- Rush by _____ date/time
- Electronic transfer - datacoordinator@eheinc.com

CUSTODY SEAL INTACT?
Y N NONE TEMP 5/10
Other _____

Each signatory please return one copy of this form to the above address

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 9/30/09
 Received by: [Signature] of (company name) ATI Date: 10/1/09
 Relinquished by: _____ of (company name) _____ Date: _____
 Received by: _____ of (company name) _____ Date: _____
 Relinquished by: _____ of (company name) _____ Date: _____
 Received by: _____ of (company name) _____ Date: _____
 Lab Data
 Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

SAMPLE RECEIPT SUMMARY

WORKORDER 0910023A

Client

Mr. Taeko Minegishi
 Environmental Health &
 Engineering, Inc.
 117 Fourth Avenue
 Needham, MA 02494

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 10/12/09 11:59 pm

Date Completed: 10/20/09

Date Received: 10/1/09

PO#: 16512

Project#: 16512

Total \$: \$ 880.00

Logged By: MG

Sales Rep: TL

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	101856	ATL Applications	9/30/2009	\$50.00
02A	101857	ATL Applications	9/30/2009	\$50.00
03A	101858	ATL Applications	9/30/2009	\$50.00
03AA	101858 Lab Duplicate	ATL Applications	9/30/2009	\$0.00
04A	101859	ATL Applications	9/30/2009	\$50.00
05A	101860	ATL Applications	9/30/2009	\$50.00
06A	101861	ATL Applications	NA	\$50.00
07A	101862	ATL Applications	NA	\$50.00
08A	101886	ATL Applications	9/30/2009	\$50.00
09A	101887	ATL Applications	9/30/2009	\$50.00
10A	101888	ATL Applications	9/30/2009	\$50.00
10AA	101888 Lab Duplicate	ATL Applications	9/30/2009	\$0.00
11A	101889	ATL Applications	9/30/2009	\$50.00
12A	101890	ATL Applications	9/30/2009	\$50.00
13A	101891	ATL Applications	NA	\$50.00
14A	101795	ATL Applications	9/29/2009	\$50.00
15A	101796	ATL Applications	9/29/2009	\$50.00
16A	101797	ATL Applications	9/29/2009	\$50.00
17A	Lab Blank	ATL Applications	NA	\$0.00
17B	Lab Blank	ATL Applications	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
 Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable
 Environmental Health & Engineering, Inc.
 117 Fourth Avenue
 Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

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

SAMPLE RECEIPT SUMMARY Continued

Client	Phone	Date Promised: 10/12/09 11:59 pm
Mr. Taeko Minegishi	800-825-5343	Date Completed: 10/20/09
Environmental Health & Engineering, Inc.	Fax	Date Received: 10/1/09
117 Fourth Avenue	781-247-4305	PO#: 16512
Needham, MA 02494		Project#: 16512
Sales Rep: TL		Total \$: \$ 880.00
		Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
18A	CCV	ATL Applications	NA	\$0.00
Misc. Charges eCVP (16) @ \$5.00 each.				\$80.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #62 Ozone-Radiello 172

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

Other Records



Method : ATL Application #62 Ozone-Radiello 172

CAS Number	Compound	Rpt. Limit (ug)
10028-15-6	Ozone	1.0

DATA REVIEW CHECKLIST

Work Order #:

0910023A

A1 A2 R T M Q

- Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
The final report has the correct reporting list, special units, and header info.
Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
Sample Discrepancy Report (SDR) is completed
Corrective Action issued - #
Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES (NO))

- Lab Blank, CCV, LCS and DUP met QC criteria
Hold time is met for all samples
Appropriate data qualifier flags are applied
Manual integrations for samples and QC are properly documented
Samples analyzed within the project or method specific clock
Retention times have been verified
Appropriate ICAL(s) included
At least one result per sample is verified against the target quant sheets/raw data
Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
Correct amount of sample analyzed (i.e. sample not over-diluted)
Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
TICs resemble reference spectra
TICs between duplicate samples are consistent
Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
Data for multiple analyses of sample(s) has been evaluated for comparability of results
Special units for all samples in the final report are correctly calculated
Manually entered results checked (i.e. TPH/NMOC)
Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
Chain of Custody scanned correctly
Verify sample id's vs. chain of custody
Date MDL(s) performed per instrument(s) 9/22/09
Samples pressurized w/ appropriate gas (N2 or He) Other (i.e. Tedlar bag, cartridge, sorbent)
Final pressure consistent with canister size (6L vs. 1L)
Verify receipt pressures
Verify canister ID #'s
Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
MDL date(s) present for all instruments utilized
Client LUMEN report reviewed for accuracy and completeness

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

A/R: RPD of 03A/AA = 100%, 10A/AA = 22%

M/Q:

A1/A2 (Analytical Review/Date) R/T (Reporting Review/Date) M (Management Review/Date) Q (QA Review/Date)
A1: R: [Signature] 10/20/09
A2: T: