@AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 0908629D

	Page Nos. From	Page Nos. To
1. Work Order Cover Page & Laboratory Narrative & Table	1	3
2. Sample Results and Raw Data (Organized By Sample)	4	7
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary (If Applicable)		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results + Raw Data)	-	-
b. Surrogate Recovery Summary Form (If Applicable)	-	-
c. Internal Standard Summary Form (If Applicable)	-	-
d. Duplicate Results Summary Sheet	-	-
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data)	-	-
f. Initial Calibration Data (Summary Sheet + Raw Data)		
g. MDL Study (If Applicable)	-	-
h. Continuing Calibration Verification Data		
i. Second Source LCS (Summary + Raw Data)	-	-
j. Extraction Logs	-	-
k. Instrument Run Logs/Software Verification	8	10
l. GC/MS Tune (Results + Raw Data)	-	-
4. Shipping/Receiving Documents:		
a. Login Receipt Summary Sheet	11	12
b. Chain-of-Custody Records	13	13
c. Sample Log-In Sheet	14	14
d. Misc. Shipping/Receiving Records (list individual records)		
Sample Receipt Discrepancy Report	-	-
5. Other Records (describe or list)		
a. Manual Spectral Defense	-	-
b. Manual Intergrations	-	-
c. Manual Calculations	-	-
d. Canister Dilution Factors	-	-
e. Laboratory Corrective Action Request	-	-
f. CAS Number Reference	15	16
g. Variance Table	-	-
h. Canister Certification	-	-
i. Data Review Check Sheet	17	17

Completed by:

Kara McKiernan	Kara McKiernan/ Document Control	09/17/09
(Signature)	(Print Name & Title)	(Date)

WORK ORDER #: 0908629D

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:	08/28/2009	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/15/2009		

FRACTION #	NAME	TEST
49A	101414	ATL Applications
50A	101415	ATL Applications
51A	101721	ATL Applications
52A	101722	ATL Applications
52AA	101722 Lab Duplicate	ATL Applications
53A	101723	ATL Applications
54A	101724	ATL Applications
54AA	101724 Lab Duplicate	ATL Applications
55A	101725	ATL Applications
56A	101726	ATL Applications
57A	101493	ATL Applications
58A	101494	ATL Applications
59A	101495	ATL Applications
60A	101496	ATL Applications
61A	101497	ATL Applications
62A	101498	ATL Applications
63A	Method Blank	ATL Applications

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0908629D

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:	08/28/2009	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/15/2009		

FRACTION #	NAME	TEST
63B	Method Blank	ATL Applications
64A	CCV	ATL Applications

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 09/15/09

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
Hydrogen Sulfide by Radiello 170
Environmental Health & Engineering, Inc.
Workorder# 0908629D

Fourteen Radiello 170 (H2S) samples were received on August 28, 2009. The procedure involves adsorption of H2S by zinc acetate to form zinc sulfide. The sulfide is then recovered by extraction with water and addition of ferric chloride in a strongly acidic solution to produce methylene blue. Methylene blue absorbance is then measured at 665 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 69 mL/min for H2S 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 21600 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.

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

AIR TOXICS LTD.

ATL Application # 59 for RAD 170 (Hydrogen Sulfide)

Spectrophotometer

0005

Field Sample I.D.	Lab Sample I.D.	Collection Date	Analysis Date	Dilution Factor	Reporting Limit (ug)	Reporting Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
101414	0908629D-49A	NA	9/10/2009	1.00	0.80	0.58	ND	ND
101415	0908629D-50A	NA	9/10/2009	1.00	0.80	0.58	ND	ND
101721	0908629D-51A	NA	9/10/2009	1.00	0.80	0.58	ND	ND
101722	0908629D-52A	8/27/2009	9/10/2009	1.00	0.80	0.58	ND	ND
101722 Duplicate	0908629D-52AA	8/27/2009	9/10/2009	1.00	0.80	0.58	ND	ND
101723	0908629D-53A	8/27/2009	9/10/2009	1.00	0.80	0.58	ND	ND
101724	0908629D-54A	8/27/2009	9/10/2009	1.00	0.80	0.58	0.94	0.68
101724 Duplicate	0908629D-54AA	8/27/2009	9/10/2009	1.00	0.80	0.58	0.93	0.68
101725	0908629D-55A	8/27/2009	9/10/2009	1.00	0.80	0.58	ND	ND
101726	0908629D-56A	8/27/2009	9/10/2009	1.00	0.80	0.58	ND	ND
101493	0908629D-57A	8/26/2009	9/10/2009	1.00	0.80	0.63	ND	ND
101494	0908629D-58A	8/26/2009	9/10/2009	1.00	0.80	0.63	ND	ND
101495	0908629D-59A	8/26/2009	9/10/2009	1.00	0.80	0.63	0.95	0.75
101496	0908629D-60A	8/26/2009	9/10/2009	1.00	0.80	0.63	ND	ND
101497	0908629D-61A	8/26/2009	9/10/2009	1.00	0.80	0.63	ND	ND
101498	0908629D-62A	NA	9/10/2009	1.00	0.80	0.58	ND	ND
Method Blank	0908629D-63A	NA	9/10/2009	1.00	0.80	0.58	ND	ND
Method Blank	0908629D-63B	NA	9/10/2009	1.00	0.80	0.58	ND	ND
							%Rec	
CCV	0908629D-64A	NA	9/10/2009	1.00	0.80	0.58	108	

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 18720 minutes was assumed for the QC samples.
4. Background subtraction not performed.

Hydrogen Sulfide Radiello Calculation Worksheet

Workorder #:	0908629D	
Sampling Rate (ng/ppb.min)	0.096	Typically0.096 for H2S
Sampling T (deg C)	25	Typically 25
Volume (mL)	10.5	Typically 10.5 for H2S
Date of Analysis:	9/10/2009	
Corrected Q	0.096	Takes into account temp

Q includes conversion from Sulfide to H2S

						(Abs-Y-int)xDF / Slope	Conc(ug/mL)xVol (mL)	conc (ug sulfide) *MW H2S / MW Sulfide	Conc (ug) x 1000 / Q x Duration	ppbx mw / 24.45
										T Corrected, no Blank correction
LabSampleID	Client	Date of Collection	Abs	Duration (min)	DF	Conc (ug/mL) of sulfide	Conc (ug) of sulfide	Conc (ug) of H2S	Conc (ppb) of H2S	Conc (ug/m3) of H2S
49A	101414	NA	0.018	18720	1.00	-0.005448629	-0.057210604	-0.060799869	-0.032	-0.044
50A	101415	NA	0.022	18720	1.00	-0.001335311	-0.014020768	-0.0149004	-0.008	-0.011
51A	101721	NA	0.019	18720	1.00	-0.0044203	-0.046413145	-0.049325002	-0.026	-0.036
52A	101722	8/27/2009	0.054	18720	1.00	0.03157123	0.33149792	0.352295358	0.184	0.257
52AA	101722 Duplicate	8/27/2009	0.055	18720	1.00	0.03259956	0.342295379	0.363770225	0.190	0.266
53A	101723	8/27/2009	0.053	18720	1.00	0.030542901	0.320700461	0.34082049	0.178	0.249
54A	101724	8/27/2009	0.105	18720	1.00	0.084016031	0.88216833	0.937513596	0.491	0.684
54AA	101724 Duplicate	8/27/2009	0.104	18720	1.00	0.082987702	0.871370871	0.926038728	0.485	0.676
55A	101725	8/27/2009	0.044	18720	1.00	0.021287936	0.22352333	0.237546683	0.124	0.173
56A	101726	8/27/2009	0.043	18720	1.00	0.020259607	0.212725871	0.226071816	0.118	0.165
57A	101493	8/26/2009	0.055	17280	1.00	0.03259956	0.342295379	0.363770225	0.206	0.288
58A	101494	8/26/2009	0.073	17280	1.00	0.05110949	0.536649641	0.570317838	0.324	0.451
59A	101495	8/26/2009	0.106	17280	1.00	0.085044361	0.892965789	0.948988463	0.538	0.750
60A	101496	8/26/2009	0.051	17280	1.00	0.028486242	0.299105543	0.317870755	0.180	0.251
61A	101497	8/26/2009	0.059	17280	1.00	0.036712878	0.385485215	0.409669695	0.232	0.324
62A	101498	NA	0.024	18720	1.00	0.000721348	0.00757415	0.008049335	0.004	0.006
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
					1.00	-0.023958559	-0.251564866	-0.267347483	#DIV/0!	#DIV/0!
63A	Method Blank	NA	0.021	18720	1.00	-0.002363641	-0.024818227	-0.026375267	-0.014	-0.019
63B	Method Blank	NA	0.022	18720	1.00	-0.001335311	-0.014020768	-0.0149004	-0.008	-0.011
64A	CCV	NA	0.624	18720	1.00	0.617719005	6.486049556	6.892969784	3.609	5.031

QC Duration	CCV Spike Amt
18720	0.572

Verified: HH and AW on 9/4/09

Low PointxDF	RL(ug/mL)xVol (mL)	RL (ug sulfide) *MW H2S / MW Sulfide	Q includes conversion from Sulfide to H2S: RL (ug) x 1000 / Q x Duration	ppbx mw 24.45					Calibration Data	Calibration Date 9/10/2009 Linear Regression		
					T Corrected, no Blank correction							
RL(ug/ml) of sulfide	RL (ug) of sulfide	RL (ug) of H2S	RL (ppb) of H2S	RL (ug/m3)	Result (ug) H2S	Result (ug/m3) H2S	%Rec		ug/ml of sulfide	absorbance		
0.072	0.752	0.798966249	0.42	0.583	ND	ND			0	0	Slope	0.972451017
0.072	0.752	0.798966249	0.42	0.583	ND	ND			0.0716	0.074	Y-int	0.023298525
0.072	0.752	0.798966249	0.42	0.583	ND	ND			0.143	0.151	R2	0.997046605
0.072	0.752	0.798966249	0.42	0.583	ND	ND			0.286	0.316		
0.072	0.752	0.798966249	0.42	0.583	ND	ND			0.572	0.613		
0.072	0.752	0.798966249	0.42	0.583	ND	ND			1.145	1.119		
0.072	0.752	0.798966249	0.42	0.583	0.937513596	0.684259118						
0.072	0.752	0.798966249	0.42	0.583	0.926038728	0.675884005						
0.072	0.752	0.798966249	0.42	0.583	ND	ND						
0.072	0.752	0.798966249	0.42	0.583	ND	ND						
0.072	0.752	0.798966249	0.45	0.632	ND	ND						
0.072	0.752	0.798966249	0.45	0.632	ND	ND						
0.072	0.752	0.798966249	0.45	0.632	0.948988463	0.750353751						
0.072	0.752	0.798966249	0.45	0.632	ND	ND						
0.072	0.752	0.798966249	0.45	0.632	ND	ND						
0.072	0.752	0.798966249	0.42	0.583	ND	ND						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	#DIV/0!	#DIV/0!	ND	#DIV/0!						
0.072	0.752	0.798966249	0.42	0.583	ND	ND						
0.072	0.752	0.798966249	0.42	0.583	ND	ND	%Rec					
0.072	0.752	0.798966249	0.42	0.583	6.892969784	5.030942964	108					

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1873

Work Order: 0908629D

Method: Rad 170

Wavelength: 665nm

Date: 9/10/09

Analyst: M. Skidmore

Prep. Notes:

Standard ID	Concentration	ABS
1858-36 E	0.0716 ug/mL	0.074
D	0.143 ug/mL	0.151
C	0.286 ug/mL	0.316
B	0.572 ug/mL	0.613
A	1.145 ug/mL	1.119

r = ~~0.9968~~ 0.99704
m = ~~0.9744~~ 0.97245
b = ~~0.02157~~ 0.02329
MJS 9/15/09

Fraction	Dilution	ABS	Sample ID	Sample Volume
49A	1.00	0.018	101414	10.5 mL
50A		0.022	101415	
51A		0.019	101721	
52A		0.054	101722	
53A		0.053	101723	
54A		0.105	101724	
55A		0.044	101725	
56A		0.043	101726	
57A		0.055	101493	
58A		0.073	101494	
59A		0.106	101495	
60A		0.051	101496	
61A		0.059	101497	
62A		0.024	101498	
BLK		0.021	N/A	
BLK		0.022		
CCV/LCS		0.624		
52AA		0.055	101722	
54AA		0.104	101724	

MJS 9/11/09

Notes: CCV/LCS @ 0.572 ug/mL
Spiked cartridge: 0.145 (1.0 mL of 1000 µm)

Signed: [signature] Date: 9/11/09

Spectrophotometer Standard Preparation Log **@Air Toxics Ltd.** **Log Book #:** 1858

Standard ID: 1858-36
Project: Calibration Solution Rad 170
Analyst: M. Skidmore
Preparation Date: 9/10/09
Expiration Date: 9/10/09

Solvent: D.I. H_2O
Solvent Lot #: N/A

Procedure/Comments:

Solution A: 2mL of Code Rad 171 (1476-984, exp 8/6/2010 ERIB) with 98 mL DI water = 1.145 µg/mL

Solution B: 2.5 mL of Solution A with 2.5mL DI water = 0.572 µg/mL.

Solution C: 1.25 mL of Solution A with 3.75mL DI Water = 0.286 µg/mL

Solution D: 0.625 mL of Solution A with 4.375 mL DI water = 0.143 µg/mL

Solution E: 0.375 mL of Solution A with 5.625mL DI water = 0.076 µg/mL

MJS
9/10/09

Signed 9/10/09 Date

Reviewed 9/10/09 Date

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

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 #:	0908629D
# of pages (Including Cover):	4

9/17/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no 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.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

0908629

DATE: 27 Aug 09

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		OTHER:Time/Date/Vol.
49A	101414	AIR PASSIVE	H2S ANALYSIS	8/13/09	∅
50A	101415				∅
51A	101721			8/14/09	∅
52A	101722				8/27/09
53A	101723				
54A	101724				
55A	101725				
56A	101726				
57A	101493			8/14/09	8/26/09
58A	101494				
59A	101495				
60A	101496				
61A	101497				
62A	101498				∅

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES**

☒ Additional report recipient mfraggola@ehsinc.com

☒ Electronic transfer - datacoordinator@ehsinc.com

Fedex 8704 2333 1702

CUSTODY SEAL INTACT? NONE TEMP 6°C

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

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 8/27/09

Received by: _____ 0850 of (company name) ATI Date: 8/28/09

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: _____

Page 4 of 4

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0908629D

Client

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

Sales Rep: TL

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 09/09/09 11:59 pm
Date Completed:
Date Received: 8/28/09
PO#: 1000594
Project#: 16512

Total $: $ 770.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
49A	101414	ATL Applications	NA	$50.00
50A	101415	ATL Applications	NA	$50.00
51A	101721	ATL Applications	NA	$50.00
52A	101722	ATL Applications	8/27/2009	$50.00
53A	101723	ATL Applications	8/27/2009	$50.00
54A	101724	ATL Applications	8/27/2009	$50.00
55A	101725	ATL Applications	8/27/2009	$50.00
56A	101726	ATL Applications	8/27/2009	$50.00
57A	101493	ATL Applications	8/26/2009	$50.00
58A	101494	ATL Applications	8/26/2009	$50.00
59A	101495	ATL Applications	8/26/2009	$50.00
60A	101496	ATL Applications	8/26/2009	$50.00
61A	101497	ATL Applications	8/26/2009	$50.00
62A	101498	ATL Applications	NA	$50.00

Misc. Charges eCVP (14) @ $5.00 each. $70.00

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 #59 H2S-Radiello 170

Other Records

Air Toxics LTD.
Laboratory Services Since 1989

Method : ATL Application #59 H2S-Radiello 170

CAS Number	Compound	Rpt. Limit (ug)
7783-06-4	Hydrogen Sulfide	1.2

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0908629D

A_1	A_2	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)
		NA	☐	☐	☐	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
		NA	☐	NA	☐	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)
		NA	☐			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.)
☐	☐	NA	☐			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
		NA				Date MDL(s) performed per instrument(s) _____
☐	☐	☐				Samples pressurized w/ appropriate gas (N_2 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.)
			NA	☐		MDL date(s) present for all instruments utilized
		NA	☐	☑	☐	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: Dup on 52A + 54A

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: LY 9/15/09	JT 9/15/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 02/20/09

Note (2): Management reviewer and reporting reviewer must be separate individuals.