@AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 0908631A

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Completed by:

Kara McKiernan	Kara McKiernan/ Document Control	09/21/09
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0908631A

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:	09/17/2009		

FRACTION #	NAME	TEST
01A	101545	ATL Applications
02A	101544	ATL Applications
03A	101543	ATL Applications
04A	101542	ATL Applications
05A	101541	ATL Applications
06A	101540	ATL Applications
07A	100411	ATL Applications
08A	100412	ATL Applications
09A	100413	ATL Applications
10A	100414	ATL Applications
11A	100415	ATL Applications
12A	100416	ATL Applications
13A	101182	ATL Applications
13AA	101182 Lab Duplicate	ATL Applications
14A	101183	ATL Applications
14AA	101183 Lab Duplicate	ATL Applications
15A	101184	ATL Applications

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

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PHONE:	800-825-5343	**P.O. #**	16512
FAX:	781-247-4305	**PROJECT #**	16512
DATE RECEIVED:	08/28/2009	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/17/2009		

FRACTION #	NAME	TEST
16A	101185	ATL Applications
17A	Method Blank	ATL Applications
17B	Method Blank	ATL Applications
18A	CCV	ATL Applications

CERTIFIED BY: _____ DATE: 09/17/09

Laboratory Director

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
Nitrogen Dioxide by Radiello 166
Environmental Health & Engineering, Inc.
Workorder# 0908631A

Sixteen Radiello 166 (NO2) samples were received on August 28, 2009. The procedure involves extraction of nitrite from reaction of NO2 with triethanolamine. Absorbance of nitrite is then measured at 537 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 141 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 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 # 61 for RAD 166 (Nitrogen Dioxide)

Spectrophotometer

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)
101545	0908631A-01A	8/24/2009	9/1/2009	1.00	0.32	0.23	3.5	2.5
101544	0908631A-02A	8/24/2009	9/1/2009	1.00	0.32	0.23	3.8	2.7
101543	0908631A-03A	8/24/2009	9/1/2009	1.00	0.32	0.23	2.2	1.5
101542	0908631A-04A	8/24/2009	9/1/2009	1.00	0.32	0.23	7.5	5.4
101541	0908631A-05A	8/24/2009	9/1/2009	1.00	0.32	0.23	3.2	2.3
101540	0908631A-06A	NA	9/1/2009	1.00	0.32	0.20	ND	ND
100411	0908631A-07A	8/24/2009	9/1/2009	1.00	0.32	0.22	1.8	1.2
100412	0908631A-08A	8/24/2009	9/1/2009	1.00	0.32	0.22	1.8	1.2
100413	0908631A-09A	8/24/2009	9/1/2009	1.00	0.32	0.22	3.0	2.0
100414	0908631A-10A	8/24/2009	9/1/2009	1.00	0.32	0.22	2.8	1.8
100415	0908631A-11A	8/24/2009	9/1/2009	1.00	0.32	0.22	2.3	1.5
100416	0908631A-12A	NA	9/1/2009	1.00	0.32	0.20	ND	ND
101182	0908631A-13A	8/25/2009	9/1/2009	1.00	0.32	0.20	18	11
101182 Lab Duplicate	0908631A-13AA	8/25/2009	9/1/2009	1.00	0.32	0.20	18	11
101183	0908631A-14A	8/25/2009	9/1/2009	1.00	0.32	0.20	20	12
101183 Lab Duplicate	0908631A-14AA	8/25/2009	9/1/2009	1.00	0.32	0.20	21	13
101184	0908631A-15A	8/25/2009	9/1/2009	1.00	0.32	0.20	15	9.1
101185	0908631A-16A	8/25/2009	9/1/2009	1.00	0.32	0.20	6.6	4.1
Method Blank	0908631A-17A	NA	9/1/2009	1.00	0.32	0.20	0.48	0.30
Method Blank	0908631A-17AA	NA	9/1/2009	1.00	0.32	0.20	0.52	0.32
							%Rec	
CCV	0908631A-18A	NA	9/1/2009	1.00	0.32	0.20	101	

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 21600 minutes was assumed for the QC samples.
4. Background subtraction not performed.

Dioxide Radiello Calculation Worksheet

Workorder #:	0908631A	
Sampling Rate (ng/(ppb*min))	0.141	Typically 0.96 for NO2
Sampling T (deg C)	25	Typically 25
Volume (mL)	5	Typically 5 for NO2
Date of Analysis:	9/1/2009	

1000ng/1ug

(Abs-Y-int)xDF	Conc(ug)x5 (mL)	Conc (ug) x 1000	ppbx mw
Slope	0.5mL	Q x Duration	24.45

Corrected Q 0.141 es into account temp

LabSampleID	Client	Date of Collection	Abs	Duration (min)	DF	Conc (ug) (for 0.5mL Aliquot)	Conc (ug) in full 5 mL of sample	Conc (ppb)	Conc (ug/m3)
01A	101545	8/24/2009	0.104	18720	1.00	0.354948912	3.549489124	1.345	2.530
02A	101544	8/24/2009	0.110	18720	1.00	0.378884477	3.788844767	1.435	2.701
03A	101543	8/24/2009	0.069	18720	1.00	0.215324787	2.153247875	0.816	1.535
04A	101542	8/24/2009	0.204	18720	1.00	0.753874984	7.538749838	2.856	5.373
05A	101541	8/24/2009	0.096	18720	1.00	0.323034827	3.230348267	1.224	2.303
06A	101540	NA	0.009	21600	1.00	-0.024030855	-0.240308554	-0.079	-0.148
07A	100411	8/24/2009	0.059	20160	1.00	0.17543218	1.754321803	0.617	1.161
08A	100412	8/24/2009	0.060	20160	1.00	0.179421441	1.79421441	0.631	1.188
09A	100413	8/24/2009	0.090	20160	1.00	0.299099262	2.990992624	1.052	1.980
10A	100414	8/24/2009	0.085	20160	1.00	0.279152959	2.791529589	0.982	1.848
11A	100415	8/24/2009	0.073	20160	1.00	0.23128183	2.312818303	0.814	1.531
12A	100416	NA	0.012	21600	1.00	-0.012063073	-0.120630732	-0.040	-0.075
13A	101182	8/25/2009	0.459	21600	1.00	1.771136466	17.71136466	5.815	10.941
13AA	101182 Lab Duplicate	8/25/2009	0.474	21600	1.00	1.830975376	18.30975376	6.012	11.311
14A	101183	8/25/2009	0.526	21600	1.00	2.038416934	20.38416934	6.693	12.592
14AA	101183 Lab Duplicate	8/25/2009	0.540	21600	1.00	2.094266584	20.94266584	6.876	12.937
15A	101184	8/25/2009	0.383	21600	1.00	1.467952652	14.67952652	4.820	9.068
16A	101185	8/25/2009	0.180	21600	1.00	0.658132727	6.581327267	2.161	4.066
					1.00	-0.059934202	-0.599342018	#DIV/0!	#DIV/0!
					1.00	-0.059934202	-0.599342018	#DIV/0!	#DIV/0!
					1.00	-0.059934202	-0.599342018	#DIV/0!	#DIV/0!
					1.00	-0.059934202	-0.599342018	#DIV/0!	#DIV/0!
17A	Method Blank	NA	0.027	21600	1.00	0.047775837	0.477758375	0.157	0.295
17AA	Method Blank	NA	0.028	21600	1.00	0.051765098	0.517650982	0.170	0.320
18A	CCV	NA	0.841	21600	1.00	3.295034058	32.95034058	10.819	20.355

QC Duration	CCV Spike Amt ug per 0.5 mL
21600	3.25

nplate Verified by HH and AW on 9/4/09

1000ng/1ug

Low PointxDF	RL(ug)x5 (mL)	RL (ug) x 1000	ppbx mw
	0.5mL	Q x Duration	24.45

Calibration Data — Calibration Date 8/24/2009 — Linear Regression

RL(ug) for 0.5 mL aliquot	RL (ug) in full 5 mL of sample	RL (ppb)	RL (ug/m3)		Result (ug)	Result (ug/m3)	%Rec	0.5 mL Aliquot of Cal STD: ug/ml of NO2	ug of NO2	absorbance
0.0325	0.325	0.1	0.232		3.549489124	2.529996154		0	0	0
0.0325	0.325	0.1	0.232		3.788844767	2.700603482		0.065	0.0325	0.017
0.0325	0.325	0.1	0.232		2.153247875	1.53478674		0.325	0.1625	0.051
0.0325	0.325	0.1	0.232		7.538749838	5.373451623		1.3	0.65	0.182
0.0325	0.325	0.1	0.232		3.230348267	2.302519717		6.5	3.25	0.844
0.0325	0.325	0.1	0.201	ND		ND		13	6.5	1.637
0.0325	0.325	0.1	0.215		1.754321803	1.161123965				
0.0325	0.325	0.1	0.215		1.79421441	1.18752748				
0.0325	0.325	0.1	0.215		2.990992624	1.979632932				
0.0325	0.325	0.1	0.215		2.791529589	1.847615357				
0.0325	0.325	0.1	0.215		2.312818303	1.530773176				
0.0325	0.325	0.1	0.201	ND		ND				
0.0325	0.325	0.1	0.201		17.71136466	10.94102799				
0.0325	0.325	0.1	0.201		18.30975376	11.3106772				
0.0325	0.325	0.1	0.201		20.38416934	12.5921278				
0.0325	0.325	0.1	0.201		20.94266584	12.93713373				
0.0325	0.325	0.1	0.201		14.67952652	9.068138658				
0.0325	0.325	0.1	0.201		6.581327267	4.065552669				
0.0325	0.325	#DIV/0!	#DIV/0!	ND		#DIV/0!				
0.0325	0.325	#DIV/0!	#DIV/0!	ND		#DIV/0!				
0.0325	0.325	#DIV/0!	#DIV/0!	ND		#DIV/0!				
0.0325	0.325	#DIV/0!	#DIV/0!	ND		#DIV/0!				
0.0325	0.325	0.1	0.201		0.477758375	0.295130717				
0.0325	0.325	0.1	0.201		0.517650982	0.319773998	%Rec			
0.0325	0.325	0.1	0.201		32.95034058	20.35476123	101			

Slope	0.250673012
Y-int	0.015023887
R2	0.999826518

QC Results and Raw Data

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1564

Work Order: 0908631A

Date: 9/1/09

Analyst: A. Toyama

Method: Rad 166

Wavelength: 537 nm

Prep. Notes:

Standard ID	Concentration	ABS
1858-26 0.1 0.065	0.065 1 ug/mL	0.017
-0.5 0.325	0.325 5 ug/mL	0.051
-2.0 1.3	1.3 2.0 ug/mL	0.182
-10 6.5	6.5 10 ug/mL	0.844
-20 13	13 20 ug/mL	1.637
9/3/09 AT	9/3/09 AT	

r = 0.9998

m = ~~0.0845~~ 0.25067 ~~0.1853~~

b = ~~0.0150~~ 0.0150

9/3/09 AT

Fraction	Dilution	ABS	Sample ID	Sample Volume
01A	1.00	0.104	101545	5.0 mL
02A		0.110	544	
03A		0.069	543	
04A		0.200	542	
05A		0.096	541	
06A		0.009	540	
07A		0.059	411	
08A		0.060	412	
09A		0.090	413	
10A		0.085	414	
11A		0.073	415	
12A		0.012	416	
13A		0.459	182	
14A		0.526	183	
15A		0.383	184	

Notes: Blank Cartridges : Lot 09150
CCV/LCS prepared at 10 ug/mL
65
9/8/09 AT

Signed: _____ Date: 9/1/09

Spectrophotometer Logbook

@Air Toxics Ltd.

Log Book #: 1564

Work Order: 0908631A

cont. from page 39

Date: _____ **Method:** _____

Analyst: _____ **Wavelength:** _____

Prep. Notes:

Standard ID	Concentration	ABS

r = _____
m = _____
b = _____

9/1/09 AG

Fraction	Dilution	ABS	Sample ID	Sample Volume
KoA	1.00 ~~101185~~ 9/1/09 AG	0.180	101185	5.0 mL
13AA	1.00 ~~48~~	0.474	↓ 182	↓
14AA	1.00	0.540	↓ 183	
BLK	↓	0.027	NA	
BLK		0.028	↓	
CCV/LCS		0.841		
			9/1/09 AG	

Notes: _____

Signed: _____ Date: 9/1/09

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

Standard ID: 1858-26
Project: Calibration Solution Rad 1666
Analyst: A. Toyama
Preparation Date: 9/1/09
Expiration Date: 9/1/09

Solvent: DI H_2O
Solvent Lot #: NA

Procedure/Comments: Dissolve 5mg Sodium Nitrite, 97% (Located ERLD) in 250 mL DI H_2O to yield ~~20 mg/L or 20 ug/mL~~ 9/3/09 AET From this solution, dilute to make 13 mg/L or 13 ug/mL

6.5 ug/mL 1.3 ug/mL 0.325 ug/mL 0.065 ug/mL

~~10 ug/mL, 2.0 ug/mL, 0.5 ug/mL and 0.1 ug/mL~~ 9/3/09 AET

(~~300:600~~ 315:630 ~~300:600~~ 130:650 ~~125:625~~ 9/1/09 AET 150:600 100:500) all in µl from conc. just in

To each of these calibration levels, transfer 0.5mL to vial and add 5 mL of sulphanilamide, cap tightly, stir and wait 5 minutes. Then add 1 mL of NEDA solution, stir and wait 10 minutes. Measure absorbance at 537 nm.

8/31/09
AET

Page 26 — Signed — 8/31/09 Date — Reviewed — 9/2/09 Date — 0011 — Rev. 8/97

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 #:	0908631A
# of pages (Including Cover):	4

9/21/2009

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.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 27 AUG 09

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

0908631

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	101545	AIR/PASSIVE	NO_2 SO_2 HF ANALYSIS	8/11/09	8/24/09
02A	101544				
03A	101543				
04A	101542				
05A	101541				
06A	101540				∅
07A	100411			8/10/09	8/24/09
08A	100412				
09A	100413				
10A	100414				
11A	100415				
12A	100416				∅
13A	101182			8/10/09	8/25/09
14A	101183				
15A	101184				
16A	101185				

Special Instructions:

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

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient mfragala@eheinc.com

EH ex 8704 2333 1854

CUSTODY SEAL INTACT? N NONE TEMP 6°C

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

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

Received by: [signature] 0850 of (company name) ATL 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 1 of 4

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

0014

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0908631A

Client

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

Phone

800-825-5343

Fax

781-247-4305

Sales Rep: TL

Date Promised: 09/09/09 11:59 pm
Date Completed: 9/17/09
Date Received: 8/28/09
PO#: 16512
Project#: 16512

Total $: $ 720.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
01A	101545	ATL Applications	8/24/2009	$40.00
02A	101544	ATL Applications	8/24/2009	$40.00
03A	101543	ATL Applications	8/24/2009	$40.00
04A	101542	ATL Applications	8/24/2009	$40.00
05A	101541	ATL Applications	8/24/2009	$40.00
06A	101540	ATL Applications	NA	$40.00
07A	100411	ATL Applications	8/24/2009	$40.00
08A	100412	ATL Applications	8/24/2009	$40.00
09A	100413	ATL Applications	8/24/2009	$40.00
10A	100414	ATL Applications	8/24/2009	$40.00
11A	100415	ATL Applications	8/24/2009	$40.00
12A	100416	ATL Applications	NA	$40.00
13A	101182	ATL Applications	8/25/2009	$40.00
13AA	101182 Lab Duplicate	ATL Applications	8/25/2009	$0.00
14A	101183	ATL Applications	8/25/2009	$40.00
14AA	101183 Lab Duplicate	ATL Applications	8/25/2009	$0.00
15A	101184	ATL Applications	8/25/2009	$40.00
16A	101185	ATL Applications	8/25/2009	$40.00
17A	Method Blank	ATL Applications	NA	$0.00
17B	Method 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 #61 NO2-Radiello 166

SAMPLE RECEIPT SUMMARY Continued

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: 9/17/09
Date Received: 8/28/09
PO#: 16512
Project#: 16512

Total $: $ 720.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
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 #61 NO2-Radiello 166

Other Records

Air Toxics LTD.
Laboratory Services Since 1989

Method : ATL Application #61 NO2-Radiello 166

CAS Number	Compound	Rpt. Limit (ug)
10102-44-0	Nitrogen Dioxide	1.0

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 090863/A

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)
		☐	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
NA	☐	☐	☐	☐	☐	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
NA	☐	☐	☐		☐	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
NA	☐	☐	☐	☐	☐	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) _____
NA	☐	☐	☐			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.)
			☑	☐		MDL date(s) present for all instruments utilized
		☐	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R:

Dup. 13A, 14A

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: MJ 9/11/09	R:	MV 9/17/09	
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.