



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 1011419C

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative & Table	1	2
2. Sample Results and Raw Data (Organized By Sample)	3	6
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	7	15
l. GC/MS Tune (Results + Raw Data)	-	-
4. Shipping/Receiving Documents:		
a. Login Receipt Summary Sheet	16	17
b. Chain-of-Custody Records	18	18
c. Sample Log-In Sheet	19	19
d. Misc. Shipping/Receiving Records (list individual records)		
<u>Sample Receipt Discrepancy Report</u>	-	-
5. Other Records (describe or list)		
a. <u>Manual Spectral Defense</u>	-	-
b. <u>Manual Intergrations</u>	-	-
c. <u>Manual Calculations</u>	-	-
d. <u>Canister Dilution Factors</u>	-	-
e. <u>Laboratory Corrective Action Request</u>	-	-
f. <u>CAS Number Reference</u>	20	21
g. <u>Variance Table</u>	-	-
h. <u>Canister Certification</u>	-	-
i. <u>Data Review Check Sheet</u>	22	22

Completed by:

Kara McKiernan

(Signature)

Kara McKiernan/ Document Control

(Print Name & Title)

12/03/10

(Date)

WORK ORDER #: 1011419C

Work Order Summary

CLIENT: Mr. Brian Baker
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

FAX: 781-247-4305

DATE RECEIVED: 11/18/2010

DATE COMPLETED: 12/01/2010

P.O. # 17131

PROJECT # 17131

CONTACT: Ausha Scott

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
33A	118663	ATL Applications
34A	118664	ATL Applications
35A	118665	ATL Applications
36A	118666	ATL Applications
37A	Lab Blank	ATL Applications
37B	Lab Blank	ATL Applications
38A	LCS	ATL Applications

CERTIFIED BY:

Sandra J. Freeman

Laboratory Director

DATE: 12/01/10

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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# 1011419C**

Four Radiello 170 (H₂S) samples were received on November 18, 2010. 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 40170 minutes was used for the QC samples and trip blanks.

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

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)
118663	1011419C-33A	11/16/2010	11/29/2010	1.00	0.80	0.27	0.86	0.29
118664	1011419C-34A	11/16/2010	11/29/2010	1.00	0.80	0.27	1.3	0.45
118665	1011419C-35A	NA	11/29/2010	1.00	0.80	0.27	ND	ND
118666	1011419C-36A	NA	11/29/2010	1.00	0.80	0.27	ND	ND
Method Blank	1011419C-37A	NA	11/29/2010	1.00	0.80	0.27	ND	ND
Method Blank	1011419C-37B	NA	11/29/2010	1.00	0.80	0.27	ND	ND
LCS	1011419C-38A	NA	11/29/2010	1.00	0.80	0.27	%Rec 97	

- COMMENTS:** 1. NA=Not Applicable
 2. ND=Not Detected
 3. Exposure time of 40170 minutes was assumed for the QC samples.
 4. Background subtraction not performed.

QC Results and Raw Data

Work Order: 1011419 B/C

Date: 11/29/10

Method: Rad 170

Analyst: M. Skidmore

Wavelength: 665 nm

Standard ID	Concentration	ABS
	Sulfide (ug/ml)	
Level 1 1993-96-E	0.0716	0.093
Level 2 -D	0.143	0.180
Level 3 -C	0.286	0.355
Level 4 -B	0.572	0.681
Level 5 -A	1.145	1.253
ICV 1993-97	0.286	0.350

$$r = \frac{0.9981}{1.078}$$

$$b = \frac{0.08407}{1.078}$$

ICV % Recovery = 102

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
17A	1.00	0.027	118713	10.5 mL	
18A		0.022	118714		
19A		0.135	118725		
20A		0.099	118726		
21A		0.123	118727		
22A		0.185	118728		
23A		0.021	118729		
24A		0.025	118730		
25A		0.122	118741		
26A		0.120	118742		
27A		0.189	118743		
28A		0.105	118744		
29A		0.024	118745		
30A		0.024	118746		
31A		0.202	118661		
32A		0.172	118662		
32AA		0.175	↓		
33A		0.117	118663		
34A		0.163	118664		
35A		0.023	118665		
36A		0.023	118666		
BLK1	↓	0.023	N/A	↓	Lot: 10101

Procedure:

- 1.) Add 10 mL of H₂O to sample tube, cap and vortex for 1 minute.
- 2.) Add 0.5 mL of Ferric Chloride-Amine solution and cap immediately.
- 3.) Allow color to develop for 30 minutes.
- 4.) Measure absorbance at 665nm.

MJS 11/29/10



Signed

11/29/10

Date

 →
 continued
 Page 79

Work Order: _____

Date: _____

Method: _____

Analyst: _____

Wavelength: _____

Standard ID	Concentration	ABS
	Page 78	
Level 1	See	
Level 2		
Level 3		
Level 4		
Level 5		
ICV		

r = _____
 m = See
 b = _____

Page 79

ICV % Recovery = _____

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
B/K2	1.00	0.023	N/A	10.5ml	Lot: 10101
LCS	↓	0.173	↓	↓	Lot: 10101, 0.133 µg/ml
CLV	↓	0.359	↓	5.0ml	, 0.286 µg/ml
MJS 11/29/10					

Procedure:

[Signature]

Signed

11/29/10

Date

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-77

Project: Ferric Chloride Solution Rad 170

Analyst: M. Skidmore

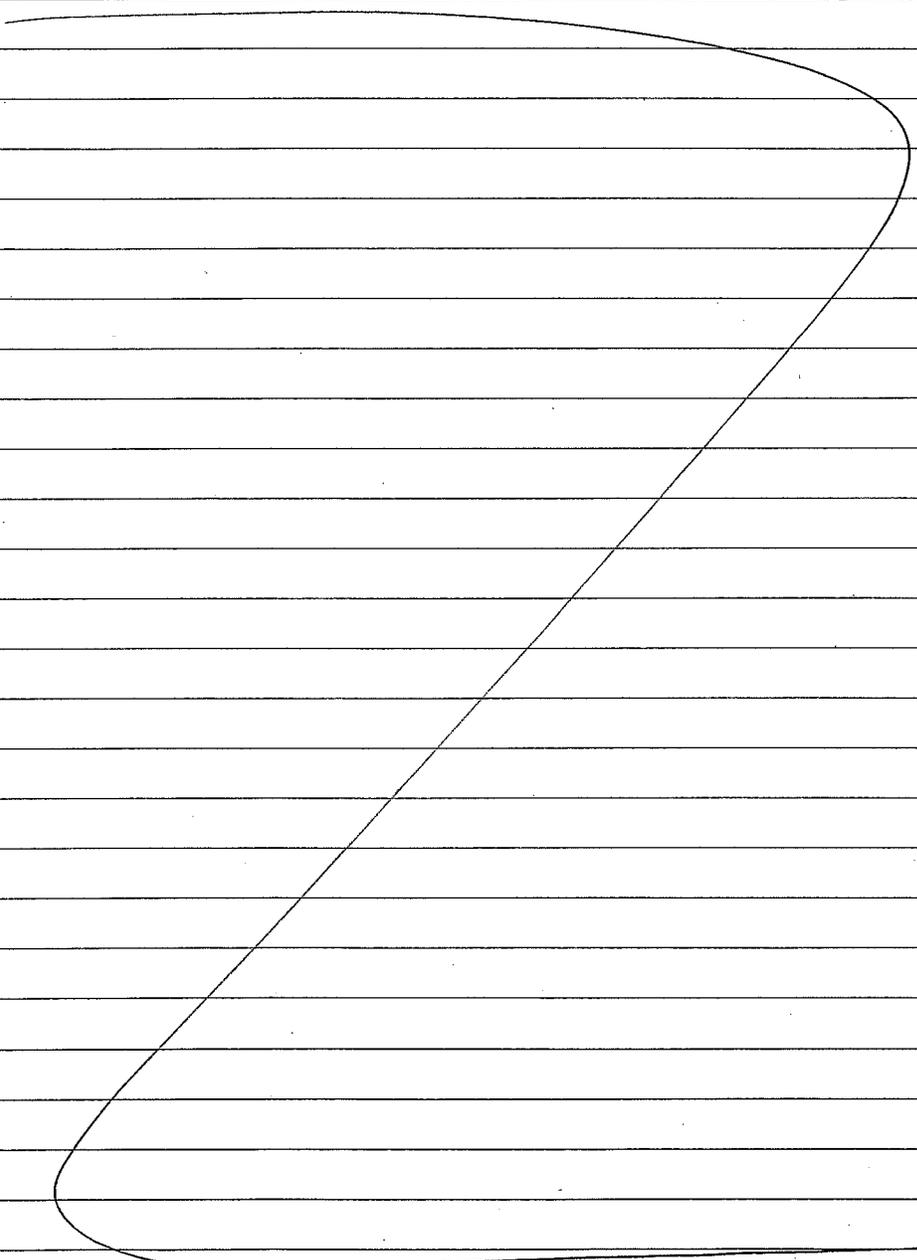
Preparation Date: 10/18/10

Expiration Date: 10/18/11

Solvent: HPLC H₂O

Solvent Lot #: 0B270

Procedure/Comments: Dissolve 125 g of ferric chloride hexahydrate (located in ERAC, lot: 732917) in 50 mL of H₂O.



MJS 10/18/10

M. Skidmore 10/18/10
Signed Date

Fauzin
Reviewed

10/22/10
Date

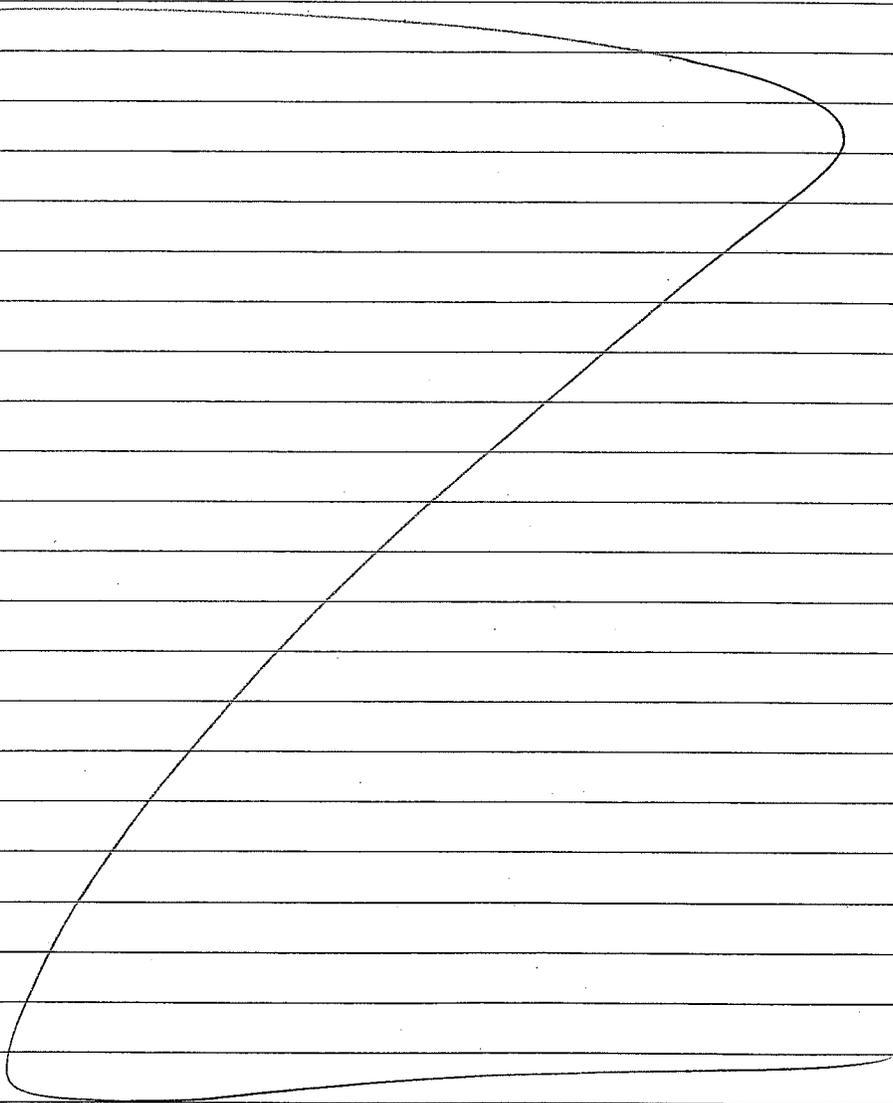
Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-94
Project: Amine solution Rad 170
Analyst: M. Skidmore
Preparation Date: 11/29/10
Expiration Date: 12/29/10

Solvent: HPLC H₂O
Solvent Lot #: DB812

Procedure/Comments: 0.1687 g of N,N-dimethyl-p-phenyldiammonium oxalate (located in ERIA; Lot: 63797PJ) was dissolved in a solution of 12.5 ml of sulfuric acid (lot: 01428LS) and 12.5 ml of HPLC grade H₂O (lot: DB812) for a total volume of 25 ml.



MJS 11/29/10

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-95

Project: Ferric chloride - Amine solution Rad 170

Analyst: M. Skidmore

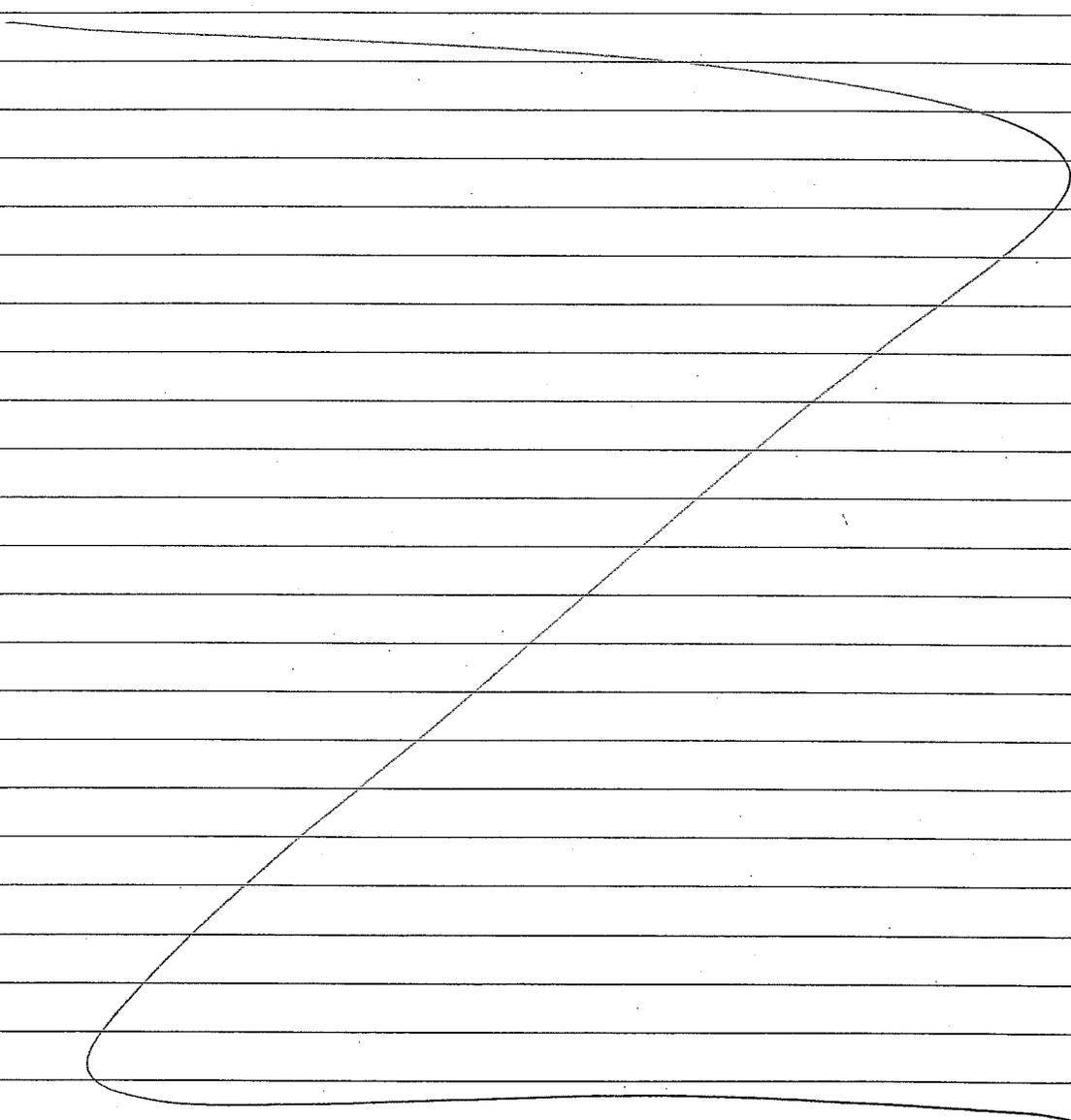
Preparation Date: 11/29/10

Expiration Date: 11/29/10

Solvent: HPLC H₂O

Solvent Lot #: DB812

Procedure/Comments: Add 4.0 mL of ferric chloride solution
(1993-77, exp 10/18/11) with 20 mL of Amine solution
(1993-94, exp 12/29/10).



MJS 11/29/10

M. Skidmore

11/29/10

Fauzi

12/02/10

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-96
Project: Rad 170 calibration curve
Analyst: M. Skidmore
Preparation Date: 11/29/10
Expiration Date: 11/29/10

Solvent: HPLC H₂O
Solvent Lot #: DB812

Procedure/Comments: _____

Solution A: 2 mL of Code Rad 171 (1476-2077, exp 6/16/11) (located in ER1B) with 98 mL of D.I. H₂O = 1.145 µg/mL

Solution B: 2.5 mL of Solution A with 2.5 mL of D.I. H₂O = 0.572 µg/mL

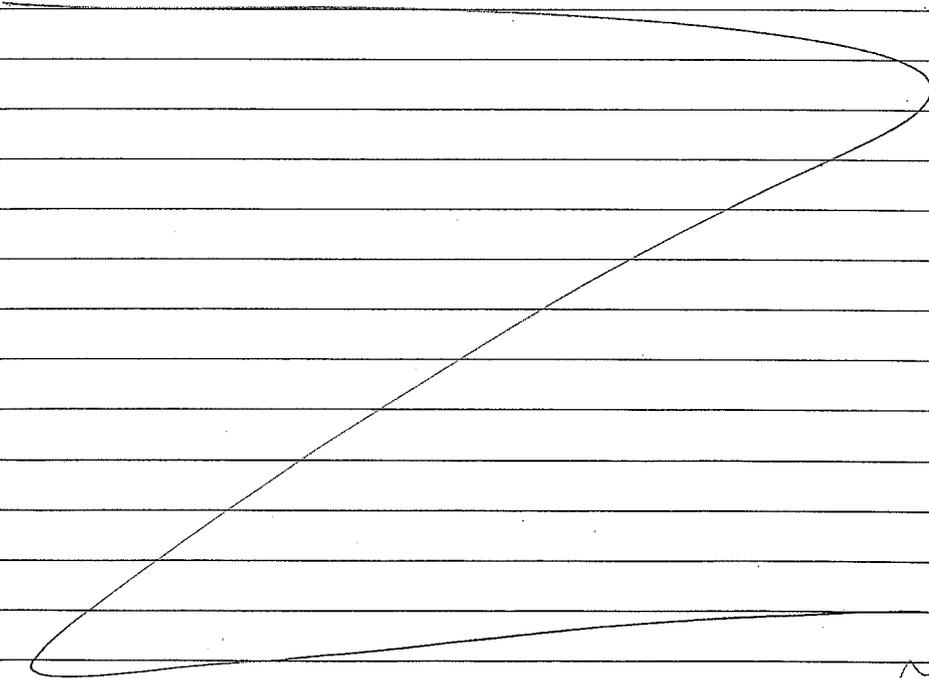
Solution C: 1.25 mL of Solution A with 3.75 mL of D.I. H₂O = 0.286 µg/mL

Solution D: 0.625 mL of Solution A with 4.375 mL of D.I. H₂O = 0.143 µg/mL

Solution E: 0.375 mL of Solution A with 5.625 mL of D.I. H₂O = 0.0716 µg/mL

Note: Each solution was measured immediately after it was prepared. Solution A is only stable in the flask it was prepared in.

MJS 11/29/10



MJS
11/29/10

Page 96 MJS 11/29/10
Signed Date

MJS 12/01/10
Reviewed Date

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-97
Project: Rad 170 1CV
Analyst: Fauzia
Preparation Date: 11/29/10
Expiration Date: 11/29/10

Solvent: HPLC H2O
Solvent Lot #: DB 812

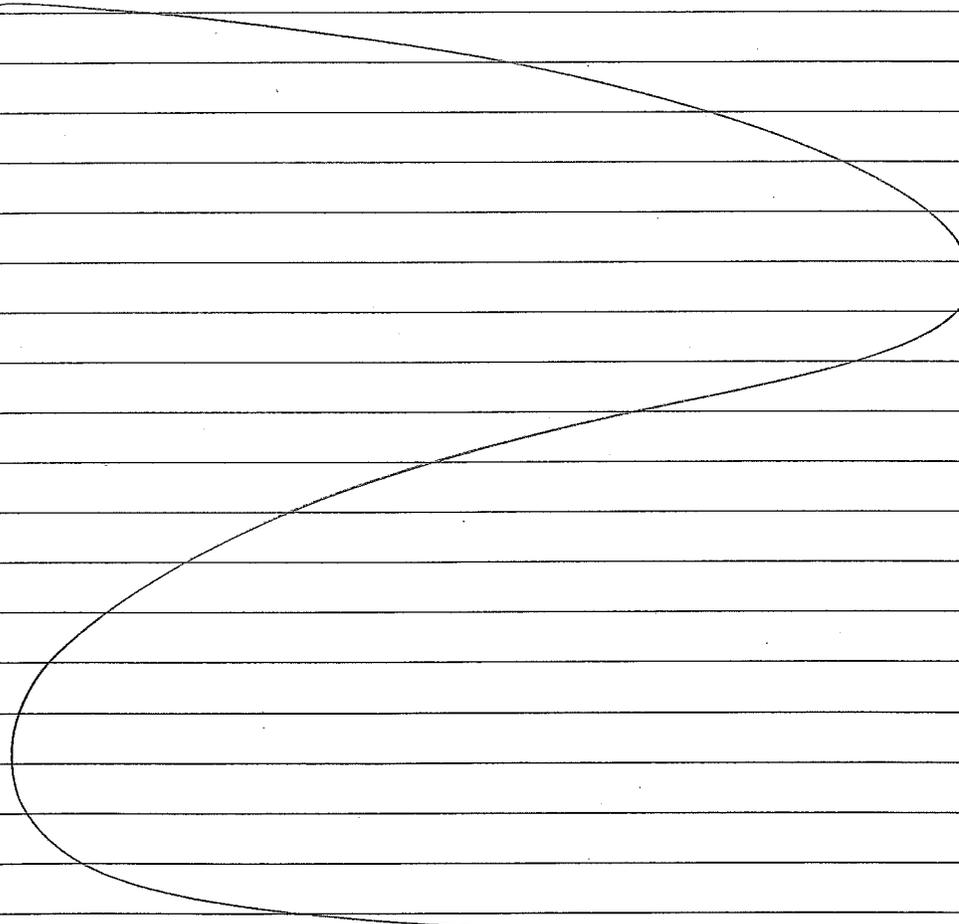
Procedure/Comments:

Solution A: 2 mL of Code Rad 171 (1476-2077, exp 6/16/11) (located in ER1B) with 98 mL of D.I. H₂O = 1.145 µg/mL

Solution C: 1.25 mL of Solution A with 3.75 mL of D.I. H₂O = 0.286 µg/mL

Note: Each solution was measured immediately after it was prepared. Solution A is only stable in the flask it was prepared in.

MJS 11/29/10



fm
11/29/10

Fauzia
Signed Date 11/29/10

Michelle
Reviewed Date 11/29/10 Rev. 8/97

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1993

Standard ID: 1993-98
Project: Rad 170 H₂S LCS
Analyst: M. Skidmore
Preparation Date: 11/29/10
Expiration Date: 11/29/10

Solvent: HPLC H₂O
Solvent Lot #: DB 812

Procedure/Comments:

A Rad 170 cartridge (lot: 10101) was placed in a 40 mL VOA vial. 10.0 mL of D.I. H₂O was aliquoted into the vial. 1.0 mL of H₂S gas (1476-1497; 1000 ppm) was injected into the vial, into the H₂O. The solution was allowed to gently shake for 2 hours. Then 0.5 of the ferric-chloride-amine (1993-95) was added to the vial and capped immediately. The solution was allowed to sit for 30 minutes and the absorbance was measured at 665 nm.

MJS 11/29/10

This procedure was performed once for each laboratory batch.

MJS
11/29/10

M. Skidmore 11/29/10
Signed Date

Fauzi
Reviewed

12/01/10
Date Rev. 8/97

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. Brian Baker
FAX #: 781-247-4305
FROM: Sample Receiving
Workorder #: 1011419C
of pages (Including Cover): 4

12/3/2010

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.

SAMPLE RECEIPT SUMMARY

WORKORDER 1011419C

Client
Mr. Brian Baker
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Phone
800-825-5343
Fax
781-247-4305

Date Promised: 12/03/10 11:59 pm
Date Completed: 12/1/10
Date Received: 11/18/10
PO#: 17131
Project#: 17131

Sales Rep: TL

Total \$: \$ 340.00
Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
33A	118663	ATL Applications	11/16/2010	\$80.00
34A	118664	ATL Applications	11/16/2010	\$80.00
35A	118665	ATL Applications	NA	\$80.00
36A	118666	ATL Applications	NA	\$80.00
37A	Lab Blank	ATL Applications	NA	\$0.00
37B	Lab Blank	ATL Applications	NA	\$0.00
38A	LCS	ATL Applications	NA	\$0.00
Misc. Charges eCVP (4) @ \$5.00 each.				\$20.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC/14482

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

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

Other Records



Method : ATL Application #59 H2S-Radiello 170

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

DATA REVIEW CHECKLIST Work Order #: 1011419C

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

LUMEN validation report present and initialed **CIRCLE (YES / NO)**

- | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Lab Blank, CCV, LCS and DUP met QC criteria |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Hold time is met for all samples |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate data qualifier flags are applied |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Manual integrations for samples and QC are properly documented |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples analyzed within the project or method specific clock |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Retention times have been verified |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Appropriate ICAL(s) included, %RSD Recalculation |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | At least one result per sample is verified against the target quant sheets/raw data |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs resemble reference spectra |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TICs between duplicate samples are consistent |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Special units for all samples in the final report are correctly calculated |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Manually entered results checked (i.e. TPH/NMOC) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chain of Custody scanned correctly |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify sample id's vs. chain of custody |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Date MDL(s) performed per instrument(s) <u>10/25/10</u> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Samples pressurized w/ appropriate gas (N ₂ or He) <input type="checkbox"/> Other (i.e. Tedlar bag, cartridge, sorbent) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final pressure consistent with canister size (6L vs. 1L) |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify receipt pressures |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Verify canister ID #'s |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Final PDF report reviewed for correctness |

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)
A/R: 40170 minutes duration used for QC's and Trip Blanks.

T/Q: _____

A ₁ /A ₂ (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A ₁ : <u>[Signature]</u> 10/11/10	W: <u>[Signature]</u> 10/11/10	R: _____	Q: _____

A₂: _____ T: _____

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
* Report Review is completed for DoD & Client Specific projects only.