

TestAmerica Irvine

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170200
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353495
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D8L180000-495C
Lab WorkOrder: K40NQ
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:15
Instrument ID: 023

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	4.59	92		90 - 110

TOTAL Metals
-10-
DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

ICP ID Number: _____ Date: 1/23/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: _____

TOTAL Metals

-13-

PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

Method: CV Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
IRL1721-01	12/18/2008	10.0	10.0
IRL1721-01 MS	12/18/2008	10.0	10.0
IRL1721-01 MSD	12/18/2008	10.0	10.0
MB8353495	12/18/2008	10.0	10.0
Check Sample	12/18/2008	10.0	10.0

Comments:

TOTAL Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170200

Instrument ID Number: Cetac M7500 Hg Method: CV

Start Date: 12/18/2008 End Date: 12/18/2008

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N		
Cal Blank	1.00	20:29																									X		
Std1	1.00	20:32																									X		
Std2	1.00	20:34																									X		
Std3	1.00	20:36																									X		
Std4	1.00	20:38																									X		
Std5	1.00	20:41																									X		
Std6	1.00	20:43																									X		
ICB	1.00	20:46																									X		
ICV	1.00	20:48																									X		
RL	1.00	20:50																									X		
CCV	1.00	20:52																									X		
CCB	1.00	20:55																									X		
ZZZZZZ	1.00	20:57																											
ZZZZZZ	1.00	20:59																											
ZZZZZZ	1.00	21:02																											
ZZZZZZ	1.00	21:04																											
ZZZZZZ	1.00	21:06																											
ZZZZZZ	1.00	21:08																											
ZZZZZZ	1.00	21:11																											
MB8353495	1.00	21:13																									X		
Check Sample	1.00	21:15																									X		
IRL1721-01	1.00	21:18																									X		
CCV	1.00	21:20																									X		
CCB	1.00	21:22																									X		
IRL1721-01 MS	1.00	21:25																									X		
IRL1721-01 MSD	1.00	21:27																									X		
ZZZZZZ	1.00	21:29																											
ZZZZZZ	1.00	21:32																											
ZZZZZZ	1.00	21:34																											
ZZZZZZ	1.00	21:36																											
ZZZZZZ	1.00	21:38																											
ZZZZZZ	1.00	21:41																											
ZZZZZZ	1.00	21:43																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

TOTAL Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170200
 Instrument ID Number: Cetac M7500 Hg Method: CV
 Start Date: 12/18/2008 End Date: 12/18/2008

Sample ID.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T A	V L	Z N	C N		
ZZZZZZ	1.00	21:45																											
CCV	1.00	21:48																											
CCB	1.00	21:50																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14
 TestAmerica

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Dissolved Metals

Lot ID: D8L170200

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 8353517

DISSOLVED Metals
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine SDG No.: D8L170200
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>IRL1721-01</u>	<u>D8L170200-001</u>
<u>IRL1721-01 MS</u>	<u>D8L170200-001S</u>
<u>IRL1721-01 MSD</u>	<u>D8L170200-001SD</u>

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Yongming Ding* Name: Yongming Ding
Date: 12/20/2008 Title: Analyst V 1357

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name:	<u>TESTAMERICA DENVER</u>	Client Sample ID:	<u>IRL1721-01</u>
Lot/SDG Number:	<u>D8L170200</u>	Lab Sample ID:	<u>D8L170200-001</u>
Matrix:	<u>WATER</u>	Lab WorkOrder:	<u>K4VTJ</u>
% Moisture:	<u>N/A</u>	Date/Time Collected:	<u>12/15/08 10:58</u>
Basis:	<u>Wet</u>	Date/Time Received:	<u>12/17/08 09:45</u>
Analysis Method:	<u>245.1</u>	Date Leached:	
Unit:	<u>ug/L</u>	Date/Time Extracted:	<u>12/18/08 16:30</u>
QC Batch ID:	<u>8353517</u>	Date/Time Analyzed:	<u>12/18/08 21:55</u>
Sample Aliquot:	<u>10 mL</u>	Instrument ID:	<u>023</u>
Dilution Factor:	<u>1</u>		

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

DISSOLVED Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	7.000	6.732	96.2	5.000	4.765	95.3	5.070	101.4	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

DISSOLVED Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.000	5.145	102.9			CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

DISSOLVED Metals
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170200

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.16800	84.0					

Comments:

TestAmerica

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170200
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353517
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D8L180000-517B
Lab WorkOrder: K400J
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:45
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

DISSOLVED Metals

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BLANKS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M		
		C	1	C	2	C	3			C	
Mercury	-0.030	B	0.027	U	0.027	U	0.027	U	0.027	U	CV

Comments:

TestAmerica

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170200
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353517
MS Sample Aliquot: 10 mL
MS Dilution Factor: 1

Client Sample ID: IRL1721-01
MS Lab Sample ID: D8L170200-001S
MS Lab WorkOrder: K4VTJ
Date/Time Collected: 12/15/08 10:58
Date/Time Received: 12/17/08 09:45
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:57
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	4.80		96		90 - 110

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170200
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353517
MSD Sample Aliquot: 10 mL
MSD Dilution Factor: 1

Client Sample ID: IRL1721-01
MSD Lab Sample ID: D8L170200-001D
MSD Lab WorkOrder: K4VTJ
Date/Time Collected: 12/15/08 10:58
Date/Time Received: 12/17/08 09:45
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:59
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Mercury	5.00	0.027	U	4.37		87	N	9.3		90 - 110	10

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D8L170200
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 8353517
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D8L180000-517C
Lab WorkOrder: K400J
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 12/18/08 16:30
Date/Time Analyzed: 12/18/08 21:52
Instrument ID: 023

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	4.63	93		90 - 110

DISSOLVED Metals

-10-

DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

ICP ID Number: _____ Date: 1/23/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: _____

DISSOLVED Metals

-13-

PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D8L170200

Method: CV Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
IRL1721-01	12/18/2008	10.0	10.0
IRL1721-01 MS	12/18/2008	10.0	10.0
IRL1721-01 MSD	12/18/2008	10.0	10.0
MB8353517	12/18/2008	10.0	10.0
Check Sample	12/18/2008	10.0	10.0

Comments:

DISSOLVED Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170200

Instrument ID Number: Cetac M7500 Hg Method: CV

Start Date: 12/18/2008 End Date: 12/18/2008

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
Cal Blank	1.00	20:29																										X			
Std1	1.00	20:32																										X			
Std2	1.00	20:34																										X			
Std3	1.00	20:36																										X			
Std4	1.00	20:38																										X			
Std5	1.00	20:41																										X			
Std6	1.00	20:43																										X			
ICB	1.00	20:46																										X			
ICV	1.00	20:48																										X			
RL	1.00	20:50																										X			
CCV	1.00	21:20																										X			
CCB	1.00	21:22																										X			
ZZZZZZ	1.00	21:25																													
ZZZZZZ	1.00	21:27																													
ZZZZZZ	1.00	21:29																													
ZZZZZZ	1.00	21:32																													
ZZZZZZ	1.00	21:34																													
ZZZZZZ	1.00	21:36																													
ZZZZZZ	1.00	21:38																													
ZZZZZZ	1.00	21:41																													
ZZZZZZ	1.00	21:43																													
MB8353517	1.00	21:45																										X			
CCV	1.00	21:48																										X			
CCB	1.00	21:50																										X			
Check Sample	1.00	21:52																										X			
IRL1721-01	1.00	21:55																										X			
IRL1721-01 MS	1.00	21:57																										X			
IRL1721-01 MSD	1.00	21:59																										X			
ZZZZZZ	1.00	22:02																													
ZZZZZZ	1.00	22:04																													
ZZZZZZ	1.00	22:06																													
ZZZZZZ	1.00	22:09																													
ZZZZZZ	1.00	22:11																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

DISSOLVED Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D8L170200
 Instrument ID Number: Cetac M7500 Hg Method: CV
 Start Date: 12/18/2008 End Date: 12/18/2008

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V L	Z N	C N				
ZZZZZZ	1.00	22:13																													
CCV	1.00	22:15																										X			
CCB	1.00	22:18																										X			

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 TestAmerica

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: DBL170200

Client: TA-Irvine (Boeing)

Batch(es) #: 8353495 + 8353517

Associated Samples: 1

I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.

Signature/Date: Christopher Stodale 12/19/08

1371

Metals Raw Data RoadMap

<i>LotID</i>		<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D8L170200	1 D	HG	K4VTJ1AG	20081218	M2451DS	8353517	081218AB	023
D8L170200	1 S	HG	K4VTJ1AF	20081218	M2451DS	8353517	081218AB	023
D8L170200	1	HG	K4VTJ1AC	20081218	M2451DS	8353517	081218AB	023
D8L170200	1 D	HG	K4VTJ1AE	20081218	M2451_L	8353495	081218AB	023
D8L170200	1 S	HG	K4VTJ1AD	20081218	M2451_L	8353495	081218AB	023
D8L170200	1	HG	K4VTJ1AA	20081218	M2451_L	8353495	081218AB	023

**METALS
PREPARATION LOGS
CVAA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SUPPLEMENTAL METALS PREP SHEET

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

Hg PREP & ANALYSIS - WATERS

SOP: DEN-MT-0015 QC Batch #: 8353495

Prep Date: 12/18/08	Prep By: CGG	Analysis Date: 12/18/08	Analyst: CGG	
Balance ID: H53865		Thermometer ID: MT 4025		
Digestion Cycles	Start Time	Temp °C	End Time	Temp °C
	16:30	94	18:30	94
Purple color persists or black ppt present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", explain in Comments below.				
Digestion Tube Lot # :				
For dissolved mercury only, were samples filtered in the lab? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
One or more samples were filtered prior to analysis at the instrument. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.				
Analyst(s) Initials: <u>CG</u>				

Reagents Used

Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)
HNO ₃	JT Baker	G25032		0.25
H ₂ SO ₄	Fisher	E49F06		0.5
HCl	JT Baker	G36024		used by instrument
10% SnCl ₂	Fisher	G20637	STD-7206-08	added by instrument
NaCl / NH ₂ OH	Fisher	G28617	STD-7208-08	0.6
	Fisher	G06476		
KMnO ₄	Fisher	E8585	STD-7207-08	1.5
K ₂ S ₂ O ₈	Fisher	083661	STD-6691-08	0.8

Parent Calibration Stock Standards

	Lot #	Verification #	Exp. Date
Second Source	A2-HG02056	STD-2364-08	06/01/09
Primary Calibration	H00091	STD-1683-08	05/01/09

Standards Preparation

Final digestate volume = 10 mls

Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	7
Daily Cal Working	100 ug/L	Cal Working		1.00	7
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	7
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	7
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	7
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	7
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	24
ICAL 10	10 ug/L	Daily Cal Working		10.0	24
CCV	5 ug/L	Daily Cal Working		5.0	7
ICV Intermed	700 ug/L	ICV Stock		0.70	7
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	7
LCS	5 ug/L	Daily Cal Working		0.5	7
MS/MSD	5 ug/L	Daily Cal Working		0.5	7
RL	0.2 ug/L	Daily Cal Working		0.2	7

Second Source ICV Intermediate Stock Standard Prep

Standards Log #: STD-6988-08

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments 245.1 - Total - Boeing

I certify that all information above is correct and complete.

Signature: Cris Godale

Date: 12/19/08

1374


REVIEWED BY: CG


Date: 12/19/08

Batch Number: 8353495

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

 _____

Prep Date: 12/18/08 
Due Date: 12/19/08

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D8L180000 Water	K40NQ	B 1	Due Date: SDG:	<u>10 mL</u>
D8L180000 Water	K40NQ	C 2	Due Date: SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Total	3	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Total	S 4	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Total	D 5	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170208 Water	K4VW3 Total	6	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170212 Water	K4VXA Total	7	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170218 Water	K4V1A Total	8	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170248 Water	K4V63 Total	9	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170253 Water	K4V7T Total	10	Due Date: 12/19/08 SDG:	<u>10 mL</u>

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

SUPPLEMENTAL METALS PREP SHEET

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Hg PREP & ANALYSIS - WATERS

SOP: DEN-MT-0015 QC Batch #:

8353517

Prep Date: 12/18/08	Prep By: CGG	Analysis Date: 12/18/08	Analyst: CGG
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Balance ID: H53865	Thermometer ID: MT 4025
---------------------------	--------------------------------

Digestion Cycles	Start Time	Temp °C	End Time	Temp °C
	16:30	94	18:30	94

Purple color persists or black ppt present: Yes No If "No", explain in Comments below.

Digestion Tube Lot # :

For dissolved mercury only, were samples filtered in the lab? Yes No
 One or more samples were filtered prior to analysis at the instrument. Yes No
 If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.
 Analyst(s) Initials:

Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)
HNO ₃	JT Baker	G25032		0.25
H ₂ SO ₄	Fisher	E49F06		0.5
HCl	JT Baker	G36024		used by instrument
10% SnCl ₂	Fisher	G20637	STD-7206-08	added by instrument
NaCl / NH ₂ OH	Fisher	G28617	STD-7208-08	0.6
	Fisher	G06476		
KMnO ₄	Fisher	E8585	STD-7207-08	1.5
K ₂ S ₂ O ₈	Fisher	083661	STD-6691-08	0.8

Parent Calibration Stock Standards			
	Lot #	Verification #	Exp. Date
Second Source	A2-HG02056	STD-2364-08	06/01/09
Primary Calibration	H00091	STD-1683-08	05/01/09

Standards Preparation		Final digestate volume = 10 mlS			
Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	7
Daily Cal Working	100 ug/L	Cal Working		1.00	7
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	7
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	7
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	7
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	7
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	24
ICAL 10	10 ug/L	Daily Cal Working		10.0	24
CCV	5 ug/L	Daily Cal Working		5.0	7
ICV Intermed	700 ug/L	ICV Stock		0.70	7
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	7
LCS	5 ug/L	Daily Cal Working		0.5	7
MS/MSD	5 ug/L	Daily Cal Working		0.5	7
RL	0.2 ug/L	Daily Cal Working		0.2	7

Second Source ICV Intermediate Stock Standard Prep Standards Log #: STD-6988-08

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments 245.1 - Dissolved - Boeing

I certify that all information above is correct and complete. 1376

Signature: [Signature] Date: 12/19/08

REVIEWED BY: [Signature] Date: 12/18/08

Batch Number: 8353517

TestAmerica Laboratories, Inc.

Prepared By:

Metals Prep Log/ Batch Summary

Prep Date: 12/18/08

Due Date: 12/19/08

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D8L180000 Water	K40QJ	B 1	Due Date: SDG:	<u>10 mL</u>
D8L180000 Water	K40QJ	C 2	Due Date: SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Dissolved	3	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Dissolved	S 4	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170200 Water	K4VTJ Dissolved	D 5	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170208 Water	K4VW3 Dissolved	6	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170212 Water	K4VXA Dissolved	7	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170218 Water	K4V1A Dissolved	8	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170248 Water	K4V63 Dissolved	9	Due Date: 12/19/08 SDG:	<u>10 mL</u>
D8L170253 Water	K4V7T Dissolved	10	Due Date: 12/19/08 SDG:	<u>10 mL</u>

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

**METALS
SAMPLE DATA
CVAA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Standards Preparation Logbook Record

Dec-19-2008

Logbook: \\Densvr06\StdsLog\metals.std

STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra)

Analyst: grisdalec

Vendor: Ultra Scientific (Metals) Lot No.: H00091 Vendor's Expiration Date: 05-01-2009
Solvent: 2% HN03
Date Prep./Opened: 04-03-2008 Date Received: 03-31-2008
Date Expires(1): 04-03-2009 (1 Year)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Mercuric Nitrate	100.00	100.00

STD2364-08, Hg Inorganic Ventures ICV 100ppm Std

Analyst: grisdalec

Vendor: Inorganic Ventures Lot No.: A2-HG02056 Vendor's Expiration Date: 06-01-2009
Solvent: 3.3%HCl
Date Prep./Opened: 05-01-2008 Date Received: 05-02-2007
Date Expires(1): 05-01-2009 (1 Year)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Hg	100.00	100.00

STD6679-08, 10 mg/L Hg Calibration Std

Analyst: grisdalec

Solvent: 1% HN03 Lot No.: G02058 Volume (ml): 100.00
Date Prep./Opened: 11-26-2008
Date Expires(1): 12-26-2008 (1 Month)
Date Expires(2): 05-01-2009 (1 Month)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra) Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 04-03-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (mg/L)</u>
Mercuric Nitrate	100.00	10,000

STD6988-08, Hg Inorganic Ventures ICV 700ppb

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G02058
Date Prep./Opened: 12-09-2008
Date Expires(1): 12-23-2008 (2 Weeks)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD2364-08, Hg Inorganic Ventures ICV 100ppm Std
Parent Date Expires(1): 05-01-2009 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 0.7000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Hg	100.00	700.00

STD7209-08, 100 ppb Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 12-18-2008
Date Expires(1): 12-19-2008 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD6679-08, 10 mg/L Hg Calibration Std
Parent Date Expires(1): 12-26-2008 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	10,000	100.00

STD7210-08, Blank Daily Hg Calibration Std

Analyst: GRISDALEC

Vendor: Baker Lot No.: G17027
Solvent: 1% HN03
Date Prep./Opened: 12-18-2008
Date Expires(1): 06-18-2009 (6 Months)
Date Expires(2): 12-18-2009 (1 Year)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Nitric Acid	1.0000	1.0000

STD7211-08, 0.2 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 12-18-2008
Date Expires(1): 12-19-2008 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.2000
 Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.2000

STD7212-08, 0.5 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 12-18-2008
 Date Expires(1): 12-19-2008 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.5000

STD7213-08, 1.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 12-18-2008
 Date Expires(1): 12-19-2008 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	1.0000

STD7214-08, 2.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 12-18-2008
 Date Expires(1): 12-19-2008 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std Aliquot Amount (ml): 2.0000
 Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	2.0000

STD7215-08, 5.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 12-18-2008
Date Expires(1): 12-19-2008 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std
Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 5.0000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	5.0000

STD7216-08, 10.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 12-18-2008
Date Expires(1): 12-19-2008 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00
Date Consumed: 12-06-2006

Parent Std No.: STD7209-08, 100 ppb Hg Calibration Std
Parent Date Expires(1): 12-19-2008 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 10.000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	10.000

STD7217-08, Hg Daily ICV 7ppb Calibration Std

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G17027
Date Prep./Opened: 12-18-2008
Date Expires(1): 12-19-2008 (1 Day)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD6988-08, Hg Inorganic Ventures ICV 700ppb
Parent Date Expires(1): 12-23-2008 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 0.5000

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (ug/L)</u>
Hg	700.00	3.5000

Reviewed By: Christopher Grisdale 12/19/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB

Date: 12/18/08 20:29

Analyst: cgg

ICV: _____

CALCCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
1	Cal Blank				0.00	1.0	0.00	ppb		12/18/08 20:29		
2	Std1	= 0.200			0.20	1.0	0.20	ppb	100.0%	12/18/08 20:32		
3	Std2	= 0.500			0.50	1.0	0.50	ppb	100.0%	12/18/08 20:34		
4	Std3	= 1.00			1.00	1.0	1.00	ppb	100.0%	12/18/08 20:36		
5	Std4	= 2.00			2.00	1.0	2.00	ppb	100.0%	12/18/08 20:38		
6	Std5	= 5.00			5.00	1.0	5.00	ppb	100.0%	12/18/08 20:41		
7	Std6	= 10.0			10.00	1.0	10.00	ppb	100.0%	12/18/08 20:43		
8	ICB				-0.03	1.0	-0.03	ppb	96.2%	12/18/08 20:46		
9	ICV	= 7.00			6.73	1.0	6.73	ppb	96.2%	12/18/08 20:48		
10	RL	= 0.200			0.17	1.0	0.17	ppb		12/18/08 20:50		
11	CCV	= 5.00			5.03	1.0	5.03	ppb	100.7%	12/18/08 20:52		
12	CCB				-0.02	1.0	-0.02	ppb		12/18/08 20:55		
13	K40M2B	D8L180000	8353477		-0.02	1.0	-0.02	ppb		12/18/08 20:57		
14	K40M2C	D8L180000 = 5.00	8353477		4.90	1.0	4.90	ppb	98.0%	12/18/08 20:59		
15	K4R90	D8L160241-1	8353477	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 21:02		
16	K4R90S	D8L160241-1 = 5.00	8353477	AQUEOUS	4.67	1.0	4.67	ppb		12/18/08 21:04		
17	K4R90D	D8L160241-1 = 5.00	8353477	AQUEOUS	4.66	1.0	4.66	ppb		12/18/08 21:06		
18	K4W0V	D8L170345-3	8353477	AQUEOUS	0.17	1.0	0.17	ppb		12/18/08 21:08		
19	K4VR8	D8L170199-1	8353477	AQUEOUS	0.01	1.0	0.01	ppb		12/18/08 21:11		
20	K40NCB	D8L180000	8353495		-0.02	1.0	-0.02	ppb		12/18/08 21:13		
21	K40NQC	D8L180000 = 5.00	8353495		4.59	1.0	4.59	ppb	91.8%	12/18/08 21:15		
22	K4VTJ	D8L170200-1	8353495	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 21:18		
23	CCV	= 5.00			4.76	1.0	4.76	ppb	95.3%	12/18/08 21:20		
24	CCB				-0.02	1.0	-0.02	ppb		12/18/08 21:22		
25	K4VTJS	D8L170200-1 = 5.00	8353495	AQUEOUS	4.24	1.0	4.24	ppb		12/18/08 21:25		
26	K4VTJD	D8L170200-1 = 5.00	8353495	AQUEOUS	4.64	1.0	4.64	ppb		12/18/08 21:27		
27	K4VTJG	D8L170200-1 = 5.00	8353495	AQUEOUS	4.96	1.0	4.96	ppb		12/18/08 21:29	NA verifies above	
28	K4VTJD	D8L170200-1 = 5.00	8353495	AQUEOUS	3.80	1.0	3.80	ppb		12/18/08 21:32		
29	K4VW3	D8L170208-1	8353495	AQUEOUS	0.07	1.0	0.07	ppb		12/18/08 21:34		
30	K4VXA	D8L170212-1	8353495	AQUEOUS	0.00	1.0	0.00	ppb		12/18/08 21:36		
31	K4V1A	D8L170218-1	8353495	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 21:38		
32	K4V63	D8L170248-1	8353495	AQUEOUS	0.01	1.0	0.01	ppb		12/18/08 21:41		
33	K4V7T	D8L170253-1	8353495	AQUEOUS	0.01	1.0	0.01	ppb		12/18/08 21:43		
34	K40QJBF	D8L180000	8353517		-0.02	1.0	-0.02	ppb		12/18/08 21:45		

NA verifies above

CS 12/19/08

105 12/19/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB

Date: 12/18/08 20:29

Analyst: egg

ICV: _____

CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
35	CCV	= 5.00			5.07	1.0	5.07	ppb	101.4%	12/18/08 21:48		<input type="checkbox"/>
36	CCB				-0.01	1.0	-0.01	ppb		12/18/08 21:50		<input type="checkbox"/>
37	K40QJCF	D8L180000 = 5.00	8353517		4.63	1.0	4.63	ppb	92.6%	12/18/08 21:52		<input type="checkbox"/>
38	K4VTJF	D8L170200-1	8353517	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 21:55		<input type="checkbox"/>
39	K4VTJSF	D8L170200-1 = 5.00	8353517	AQUEOUS	4.80	1.0	4.80	ppb		12/18/08 21:57		<input type="checkbox"/>
40	K4VTJDF	D8L170200-1 = 5.00	8353517	AQUEOUS	4.37	1.0	4.37	ppb		12/18/08 21:59		<input type="checkbox"/>
41	K4VTJSF	D8L170200-1 = 5.00	8353517	AQUEOUS	5.01	1.0	5.01	ppb		12/18/08 22:02	N/A	<input type="checkbox"/>
42	K4VTJDF	D8L170200-1 = 5.00	8353517	AQUEOUS	3.79	1.0	3.79	ppb		12/18/08 22:04	N/A	<input type="checkbox"/>
43	K4VW3F	D8L170208-1	8353517	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 22:06		<input type="checkbox"/>
44	K4VXAF	D8L170212-1	8353517	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 22:09		<input type="checkbox"/>
45	K4V1AF	D8L170218-1	8353517	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 22:11		<input type="checkbox"/>
46	K4V63F	D8L170248-1	8353517	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 22:13		<input type="checkbox"/>
47	CCV	= 5.00			5.14	1.0	5.14	ppb	102.9%	12/18/08 22:15		<input type="checkbox"/>
48	CCB				-0.01	1.0	-0.01	ppb		12/18/08 22:18		<input type="checkbox"/>
49	K4V7TF	D8L170253-1	8353517	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 22:20		<input type="checkbox"/>
50	K40QWBF	D8L180000	8353519		-0.02	1.0	-0.02	ppb		12/18/08 22:22		<input type="checkbox"/>
51	K40QWCF	D8L180000 = 5.00	8353519		4.91	1.0	4.91	ppb	98.3%	12/18/08 22:25		<input type="checkbox"/>
52	K35NQF	D8L050176-2	8353519	AQUEOUS	0.10	1.0	0.10	ppb		12/18/08 22:27		<input type="checkbox"/>
53	K35NQSF	D8L050176-2 = 5.00	8353519	AQUEOUS	4.89	1.0	4.89	ppb		12/18/08 22:29		<input type="checkbox"/>
54	K35NQDF	D8L050176-2 = 5.00	8353519	AQUEOUS	4.92	1.0	4.92	ppb		12/18/08 22:32		<input type="checkbox"/>
55	K4P1JBF	D8L150000	8350288		-0.02	1.0	-0.02	ppb		12/18/08 22:34		<input type="checkbox"/>
56	K4P1JCF	D8L150000 = 5.00	8350288		4.84	1.0	4.84	ppb	96.7%	12/18/08 22:36		<input type="checkbox"/>
57	K38MGF	D8L060214-1	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 22:39		<input type="checkbox"/>
58	K38MG5F	D8L060214	8350288	AQUEOUS	-0.02	5.0	-0.02	ppb		12/18/08 22:41		<input type="checkbox"/>
59	CCV	= 5.00			4.96	1.0	4.96	ppb	99.1%	12/18/08 22:43		<input type="checkbox"/>
60	CCB				-0.01	1.0	-0.01	ppb		12/18/08 22:45		<input type="checkbox"/>
61	K38MGSF	D8L060214-1 = 5.00	8350288	AQUEOUS	4.60	1.0	4.60	ppb		12/18/08 22:48		<input type="checkbox"/>
62	K38MGDF	D8L060214-1 = 5.00	8350288	AQUEOUS	4.83	1.0	4.83	ppb		12/18/08 22:50		<input type="checkbox"/>
63	K38M1F	D8L060214-2	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 22:52		<input type="checkbox"/>
64	K38M8F	D8L060214-3	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 22:55		<input type="checkbox"/>
65	K38NHf	D8L060214-4	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 22:57		<input type="checkbox"/>
66	K4FPNF	D8L100299-1	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 22:59		<input type="checkbox"/>
67	K4FPNSF	D8L100299-1 = 5.00	8350288	AQUEOUS	3.83	1.0	3.83	ppb		12/18/08 23:02		<input type="checkbox"/>
68	K4FPNDF	D8L100299-1 = 5.00	8350288	AQUEOUS	3.99	1.0	3.99	ppb		12/18/08 23:04		<input type="checkbox"/>

105 12/19/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB Date: 12/18/08 20:29

Analyst: cgg

ICV:

CAL/CCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
69	K4FPRF	D8L100299-2	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:06		<input type="checkbox"/>
70	K4FPVF	D8L100299-4	8350288	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 23:09		<input type="checkbox"/>
71	CCV	= 5.00			5.04	1.0	5.04	ppb	100.8%	12/18/08 23:11		<input type="checkbox"/>
72	CCB				-0.01	1.0	-0.01	ppb		12/18/08 23:13		<input type="checkbox"/>
73	K4FPXF	D8L100299-5	8350288	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 23:16		<input type="checkbox"/>
74	K4FP1F	D8L100299-6	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:18		<input type="checkbox"/>
75	K4FP2F	D8L100299-7	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:20		<input type="checkbox"/>
76	K4FP4F	D8L100299-8	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:22		<input type="checkbox"/>
77	K4FP6F	D8L100299-9	8350288	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:25		<input type="checkbox"/>
78	K40PLB	D8L180000	8353504		-0.02	1.0	-0.02	ppb		12/18/08 23:27		<input type="checkbox"/>
79	K40PLC	D8L180000 = 5.00	8353504		4.90	1.0	4.90	ppb	98.0%	12/18/08 23:29		<input type="checkbox"/>
80	K4VLJ	D8L170174-1	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:32		<input type="checkbox"/>
81	K4VLS	D8L170174-1 = 5.00	8353504	AQUEOUS	4.84	1.0	4.84	ppb		12/18/08 23:34		<input type="checkbox"/>
82	K4VLJD	D8L170174-1 = 5.00	8353504	AQUEOUS	4.78	1.0	4.78	ppb		12/18/08 23:36		<input type="checkbox"/>
83	CCV	= 5.00			5.06	1.0	5.06	ppb	101.1%	12/18/08 23:39		<input type="checkbox"/>
84	CCB				-0.02	1.0	-0.02	ppb		12/18/08 23:41		<input type="checkbox"/>
85	K4VL1	D8L170174-2	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:43		<input type="checkbox"/>
86	K4VL2	D8L170174-3	8353504	AQUEOUS	-0.01	1.0	-0.01	ppb		12/18/08 23:46		<input type="checkbox"/>
87	K4VL4	D8L170174-4	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:48		<input type="checkbox"/>
88	K4VL8	D8L170174-5	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:50		<input type="checkbox"/>
89	K4VMA	D8L170174-6	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:53		<input type="checkbox"/>
90	K4VMC	D8L170174-7	8353504	AQUEOUS	-0.00	1.0	-0.00	ppb		12/18/08 23:55		<input type="checkbox"/>
91	K4VMD	D8L170174-8	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/18/08 23:57		<input type="checkbox"/>
92	K4VMF	D8L170174-9	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/19/08 00:00		<input type="checkbox"/>
93	K4VMG	D8L170174-10	8353504	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:02		<input type="checkbox"/>
94	K4VMH	D8L170174-11	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/19/08 00:04		<input type="checkbox"/>
95	CCV	= 5.00			5.08	1.0	5.08	ppb	101.6%	12/19/08 00:07		<input type="checkbox"/>
96	CCB				-0.01	1.0	-0.01	ppb		12/19/08 00:09		<input type="checkbox"/>
97	K4VMJ	D8L170174-12	8353504	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:11		<input type="checkbox"/>
98	K4VMK	D8L170174-13	8353504	AQUEOUS	-0.02	1.0	-0.02	ppb		12/19/08 00:14		<input type="checkbox"/>
99	K4XW7	D8L180170-1	8353504	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:16		<input type="checkbox"/>
100	K40P1B	D8L180000	8353506		-0.01	1.0	-0.01	ppb		12/19/08 00:18		<input type="checkbox"/>
101	K40P1C	D8L180000 = 5.00	8353506		4.83	1.0	4.83	ppb	96.6%	12/19/08 00:21		<input type="checkbox"/>
102	K4XMQ	D8L180146-1	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:23		<input type="checkbox"/>

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Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB Date: 12/18/08 20:29 Analyst: cgg ICV: CAL/CCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment
103	K4XNH	D8L180146-2	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:25	
104	K4XNK	D8L180146-3	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:28	
105	K4XNL	D8L180146-4	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:30	
106	K4XPD	D8L180154-1	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:32	
107	CCV	= 5.00			4.92	1.0	4.92	ppb	98.5%	12/19/08 00:35	
108	CCB				-0.01	1.0	-0.01	ppb		12/19/08 00:37	
109	K4XQG	D8L180154-2	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:39	
110	K4XQJ	D8L180154-3	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:42	
111	K4XQM	D8L180154-4	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:44	
112	K4XQP	D8L180154-5	8353506	AQUEOUS	0.64	1.0	0.64	ppb		12/19/08 00:46	
113	K4XQT	D8L180154-6	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:49	
114	K4XQV	D8L180154-7	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:51	
115	K4XQD	D8L180155-1	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:53	
116	K4TKT	D8L160277-3	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 00:56	
117	K4TKS	D8L160277-3 = 5.00	8353506	AQUEOUS	4.50	1.0	4.50	ppb		12/19/08 00:58	
118	K4TKTD	D8L160277-3 = 5.00	8353506	AQUEOUS	3.86	1.0	3.86	ppb		12/19/08 01:00	
119	CCV	= 5.00			4.55	1.0	4.55	ppb	91.1%	12/19/08 01:03	
120	CCB				-0.02	1.0	-0.02	ppb		12/19/08 01:05	
121	K4TKW	D8L160277-4	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:07	
122	K4TKO	D8L160277-5	8353506	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:10	
123	K4P07B	D8L150000	8350284		-0.02	1.0	-0.02	ppb		12/19/08 01:12	
124	K4P07C	D8L150000 = 5.00	8350284		4.59	1.0	4.59	ppb	91.8%	12/19/08 01:14	
125	K39HD	D8L080144-1	8350284	AQUEOUS	-0.00	1.0	-0.00	ppb		12/19/08 01:17	
126	K39HDP5	D8L080144	8350284	AQUEOUS	-0.01	5.0	-0.01	ppb		12/19/08 01:19	
127	K39HDS	D8L080144-1 = 5.00	8350284	AQUEOUS	4.66	1.0	4.66	ppb		12/19/08 01:21	
128	K39HDD	D8L080144-1 = 5.00	8350284	AQUEOUS	4.55	1.0	4.55	ppb		12/19/08 01:24	
129	K39HO	D8L080144-2	8350284	AQUEOUS	0.00	1.0	0.00	ppb		12/19/08 01:26	
130	K39JG	D8L080147-4	8350284	AQUEOUS	-0.00	1.0	-0.00	ppb		12/19/08 01:28	
131	CCV	= 5.00			4.93	1.0	4.93	ppb	98.6%	12/19/08 01:31	
132	CCB				-0.02	1.0	-0.02	ppb		12/19/08 01:33	
133	K4C8Q	D8L090241-14	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:35	
134	K4C8QS	D8L090241-14 = 5.00	8350284	AQUEOUS	5.01	1.0	5.01	ppb		12/19/08 01:38	
135	K4C8QD	D8L090241-14 = 5.00	8350284	AQUEOUS	4.94	1.0	4.94	ppb		12/19/08 01:40	
136	K4C8W	D8L090241-15	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:42	

10/12/19/08

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB Date: 12/18/08 20:29

Analyst: cgg

ICV: _____

CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment
137	K4C8X	D8L090241-16	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:45	
138	K4C8XS	D8L090241-16 = 5.00	8350284	AQUEOUS	3.94	1.0	3.94	ppb		12/19/08 01:47	
139	K4C8XD	D8L090241-16 = 5.00	8350284	AQUEOUS	4.54	1.0	4.54	ppb		12/19/08 01:49	
140	K4J1W	D8L110319-1	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 01:52	
141	K4J1WS	D8L110319-1 = 5.00	8350284	AQUEOUS	4.80	1.0	4.80	ppb		12/19/08 01:54	
142	K4J1WD	D8L110319-1 = 5.00	8350284	AQUEOUS	4.93	1.0	4.93	ppb		12/19/08 01:56	
143	CCV	= 5.00			4.61	1.0	4.61	ppb	92.2%	12/19/08 01:59	
144	CCB				-0.02	1.0	-0.02	ppb		12/19/08 02:01	
145	K4J1K2	D8L110319-4	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 02:03	
146	K4J1D	D8L110319-5	8350284	AQUEOUS	0.01	1.0	0.01	ppb		12/19/08 02:06	
147	K4J1J	D8L110319-6	8350284	AQUEOUS	-0.01	1.0	-0.01	ppb		12/19/08 02:08	
148	K4P1AB	D8L150000	8350285		-0.02	1.0	-0.02	ppb		12/19/08 02:10	
149	K4P1AC	D8L150000 = 5.00	8350285		4.63	1.0	4.63	ppb	92.7%	12/19/08 02:13	
150	K39KC	D8L080142-16	8350285	AQUEOUS	-0.02	1.0	-0.02	ppb		12/19/08 02:15	
151	K39KCP5	D8L080142	8350285	AQUEOUS	-0.02	5.0	-0.02	ppb		12/19/08 02:17	
152	K39KCS	D8L080142-16 = 5.00	8350285	AQUEOUS	4.89	1.0	4.89	ppb		12/19/08 02:20	
153	K39KCD	D8L080142-16 = 5.00	8350285	AQUEOUS	4.39	1.0	4.39	ppb		12/19/08 02:22	
154	K39K8	D8L080148-15	8350285	AQUEOUS	0.01	1.0	0.01	ppb		12/19/08 02:25	
155	CCV	= 5.00			4.86	1.0	4.86	ppb	97.1%	12/19/08 02:27	
156	CCB				-0.02	1.0	-0.02	ppb		12/19/08 02:29	
157	K39LA	D8L080148-16	8350285	AQUEOUS	0.96	1.0	0.96	ppb		12/19/08 02:32	
158	K40NB8	D8L180000	8353498		-0.02	1.0	-0.02	ppb		12/19/08 02:34	
159	K40NB8C	D8L180000 = 5.00	8353498		4.55	1.0	4.55	ppb	91.1%	12/19/08 02:36	
160	K4HAV	D8L110194-6	8353498	AQUEOUS	0.00	1.0	0.00	ppb		12/19/08 02:39	
161	K4HA8	D8L110194-7	8353498	AQUEOUS	-0.02	1.0	-0.02	ppb		12/19/08 02:41	
162	K4P1K	D8L150120-1	8353498	AQUEOUS	124.00	1.0	124.00	ppb		12/19/08 02:45	NA sample 7LR
163	K4P1KS	D8L150120-1 = 5.00	8353498	AQUEOUS	129.10	1.0	129.10	ppb		12/19/08 02:55	NA sample 100x dil.
164	K4P1KB	D8L150120-1 = 5.00	8353498	AQUEOUS	122.45	1.0	122.45	ppb		12/19/08 03:04	NA sample 100x dil.
165	K4P1L	D8L150120-2	8353498	AQUEOUS	57.20	1.0	57.20	ppb		12/19/08 03:11	NA sample 7LR
166	K4P1M	D8L150120-3	8353498	AQUEOUS	3.90	1.0	3.90	ppb		12/19/08 03:16	NA sample 7LR
167	CCV	= 5.00			4.51	1.0	4.51	ppb	90.1%	12/19/08 03:18	see 10x dil.
168	CCB				-0.07	1.0	-0.07	ppb		12/19/08 03:21	
169	K4P1N	D8L150120-4	8353498	AQUEOUS	6.53	1.0	6.53	ppb		12/19/08 03:23	
170	K4P1P	D8L150120-5	8353498	AQUEOUS	3.13	1.0	3.13	ppb		12/19/08 03:25	see 10x dil.

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Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 12/19/08 13:05:58

Sequence: 081218AB Date: 12/18/08 20:29

Analyst: cgg

ICV: _____

CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
171	KAP1Q	D8L150120-6	8353498	AQUEOUS	4.09	1.0	4.09	ppb		12/19/08 03:28		<input type="checkbox"/>
172	KAP1R	D8L150120-7	8353498	AQUEOUS	0.39	1.0	0.39	ppb		12/19/08 03:30		<input type="checkbox"/>
173	KAP1T	D8L150120-8	8353498	AQUEOUS	0.99	1.0	0.99	ppb		12/19/08 03:33		<input type="checkbox"/>
174	CCV	= 5.00			4.87	1.0	4.87	ppb	97.3%	12/19/08 03:35		<input type="checkbox"/>
175	CCB				-0.12	1.0	-0.12	ppb		12/19/08 03:37		<input type="checkbox"/>
176	KAP1D	D8L160155-1	8353498	AQUEOUS	0.09	1.0	0.09	ppb		12/19/08 03:40		<input type="checkbox"/>
177	KAVQV	D8L170192-1	8353498	AQUEOUS	-0.08	1.0	-0.08	ppb		12/19/08 03:42		<input type="checkbox"/>
178	KAVQW	D8L170192-2	8353498	AQUEOUS	0.35	1.0	0.35	ppb		12/19/08 03:44		<input type="checkbox"/>
179	KAVQ0	D8L170192-3	8353498	AQUEOUS	-0.05	1.0	-0.05	ppb		12/19/08 03:47		<input type="checkbox"/>
180	KAVQ1	D8L170192-4	8353498	AQUEOUS	-0.07	1.0	-0.07	ppb		12/19/08 03:49		<input type="checkbox"/>
181	KAVQ2	D8L170192-5	8353498	AQUEOUS	-0.06	1.0	-0.06	ppb		12/19/08 03:51		<input type="checkbox"/>
182	CCV	= 5.00			4.73	1.0	4.73	ppb	94.7%	12/19/08 03:54		<input type="checkbox"/>
183	CCB				-0.10	1.0	-0.10	ppb		12/19/08 03:56		<input type="checkbox"/>
184	CCV	= 5.00			5.07	1.0	5.07	ppb	101.3%	12/19/08 08:46		<input type="checkbox"/>
185	CCB				-0.13	1.0	-0.13	ppb		12/19/08 08:48		<input type="checkbox"/>
186	KAP1K 100X	D8L150120-1	8353498	AQUEOUS	6.81	100	681.10	ppb		12/19/08 08:51		<input type="checkbox"/>
187	KAP1KS 100X	D8L150120-1 = 5.00	8353498	AQUEOUS	6.46	100	645.70	ppb		12/19/08 08:55		<input type="checkbox"/>
188	KAP1KD 100X	D8L150120-1 = 5.00	8353498	AQUEOUS	8.37	100	836.80	ppb		12/19/08 08:57		<input type="checkbox"/>
189	KAP1L 10X	D8L150120-2	8353498	AQUEOUS	4.85	10.0	48.51	ppb		12/19/08 08:59		<input type="checkbox"/>
190	CCV	= 5.00			4.94	1.0	4.94	ppb	98.9%	12/19/08 09:02		<input type="checkbox"/>
191	CCB				-0.11	1.0	-0.11	ppb		12/19/08 09:04		<input type="checkbox"/>

12/19/08

CETAC Hg Analysis Report

Analyst: grisdalec

Worksheet file: C:\Program Files\QuickTrace\Worksheets\081218AB.wsz

Date Started: 12/18/2008 7:54:43 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
Cal Blank	STD	12/18/08 08:29:44 pm	0.000	8	63.65		1.00	1.00
Std1	STD	12/18/08 08:32:01 pm	0.200	1723	2.59		1.00	1.00
Std2	STD	12/18/08 08:34:18 pm	0.500	4372	1.94		1.00	1.00
Std3	STD	12/18/08 08:36:37 pm	1.000	8676	2.06		1.00	1.00
Std4	STD	12/18/08 08:38:56 pm	2.000	16226	1.65		1.00	1.00
Std5	STD	12/18/08 08:41:15 pm	5.000	43563	2.11		1.00	1.00
Std6	STD	12/18/08 08:43:35 pm	10.000	84200	3.33		1.00	1.00

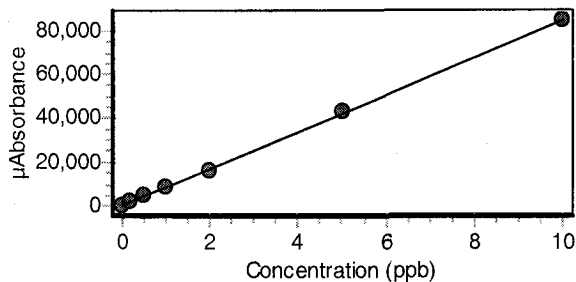
Calibration

Equation: $A = 90.569 + 8456.344C$

R2: 0.99961

SEE: 672.1287

Flags:



ICB	ICB	12/18/08 08:46:01 pm	-0.030	-164	1.63		1.00	1.00
ICV	ICV	12/18/08 08:48:22 pm	6.732	57020	2.83		1.00	1.00
% Recovery		96.17						
RL	CRDL	12/18/08 08:50:39 pm	0.168	1512	3.66		1.00	1.00
% Recovery		84.06						

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Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol.
							ODF	
CCV	CCV	12/18/08 08:52:59 pm	5.033 ✓	42649	2.95		1.00	1.00
% Recovery							1.00	
								100.66 ✓
CCB	CCB	12/18/08 08:55:15 pm	-0.019 ✓	-68	5.20		1.00	1.00
							1.00	
K40M2B	UNK	12/18/08 08:57:31 pm	-0.017 ✓	-54	5.20		1.00	1.00
							1.00	
K40M2C	UNK	12/18/08 08:59:47 pm	4.901 ✓	41534	2.98		1.00	1.00
							1.00	
K4R90	UNK	12/18/08 09:02:04 pm	-0.018	-60	9.30		1.00	1.00
							1.00	
K4R90S	UNK	12/18/08 09:04:21 pm	4.666 ✓	39549	2.68		1.00	1.00
							1.00	
K4R90D	UNK	12/18/08 09:06:38 pm	4.658 ✓	39477	0.67		1.00	1.00
							1.00	
K4W0V	UNK	12/18/08 09:08:56 pm	0.172	1542	0.86		1.00	1.00
							1.00	
K4VR8	UNK	12/18/08 09:11:14 pm	0.010	173	7.16 s		1.00	1.00
							1.00	
K40NQB	UNK	12/18/08 09:13:33 pm	-0.016 ✓	-46	14.93		1.00	1.00
							1.00	
K40NQC	UNK	12/18/08 09:15:51 pm	4.587 ✓	38884	5.56 s		1.00	1.00
							1.00	
K4VTJ	UNK	12/18/08 09:18:11 pm	-0.011	1	450.10		1.00	1.00
							1.00	
CCV	CCV	12/18/08 09:20:30 pm	4.765 ✓	40385	5.27 s		1.00	1.00
% Recovery							1.00	
								95.30 ✓
CCB	CCB	12/18/08 09:22:46 pm	-0.016 ✓	-47	17.27		1.00	1.00
							1.00	
K4VTJS	UNK	12/18/08 09:25:06 pm	4.243 ✓	35969	2.61		1.00	1.00
							1.00	
K4VTJD	UNK	12/18/08 09:27:26 pm	4.643 ✓	39352	1.35		1.00	1.00
							1.00	
K4VTJS	UNK	12/18/08 09:29:45 pm	4.364	36996	1.96		1.00	1.00
							1.00	1.00

MA confirms above

12/19/08

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags	Wt.	Vol.
							ODF	
K4VTJD	UNK	12/18/08 09:32:05 pm	3.595	99488	14.41	s	1.00	1.00
<i>NA Confirms above. as 12/19/08</i>								
K4VW3	UNK	12/18/08 09:34:22 pm	0.073	710	3.14		1.00	1.00
K4VXA	UNK	12/18/08 09:36:39 pm	0.002	111	17.73	s	1.00	1.00
K4V1A	UNK	12/18/08 09:38:56 pm	-0.009	18	33.09		1.00	1.00
K4V63	UNK	12/18/08 09:41:14 pm	0.015	218	3.37		1.00	1.00
K4V7T	UNK	12/18/08 09:43:32 pm	0.011	183	12.20	s	1.00	1.00
K40QJB	UNK	12/18/08 09:45:50 pm	-0.018	-63	14.62		1.00	1.00
CCV	CCV	12/18/08 09:48:10 pm	5.070	42966	2.03		1.00	1.00
% Recovery		101.40					1.00	
CCB	CCB	12/18/08 09:50:26 pm	-0.015	-40	4.12		1.00	1.00
K40QJC	UNK	12/18/08 09:52:44 pm	4.630	39242	1.34		1.00	1.00
K4VTJ	UNK	12/18/08 09:55:03 pm	-0.017	-51	4.35		1.00	1.00
K4VTJS	UNK	12/18/08 09:57:23 pm	4.796	40644	0.91		1.00	1.00
K4VTJD	UNK	12/18/08 09:59:42 pm	4.370	37045	2.41		1.00	1.00
K4VTJS	UNK	12/18/08 10:02:02 pm	5.009	42447	3.10		1.00	1.00
<i>NA Confirms above. as 12/19/08</i>								
K4VTJB	UNK	12/18/08 10:04:21 pm	3.788	32123	7.95	s	1.00	1.00
K4VW3	UNK	12/18/08 10:06:41 pm	-0.012	-7	19.13		1391 1.00	1.00
TestAmerica							1.00	3

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags	Wt.	Vol.	ODF
K4V1A	UNK	12/18/08 10:11:19 pm	-0.012	-9	114.47		1.00	1.00	1.00
K4V63	UNK	12/18/08 10:13:36 pm	-0.012	-7	28.51		1.00	1.00	1.00
CCV % Recovery 102.89 ✓	CCV	12/18/08 10:15:55 pm	5.145 ✓	43596	2.55		1.00	1.00	1.00
CCB	CCB	12/18/08 10:18:11 pm	-0.014 ✓	-31	11.97		1.00	1.00	1.00
K4V7T	UNK	12/18/08 10:20:29 pm	-0.013	-20	13.51		1.00	1.00	1.00
K40QWB	UNK	12/18/08 10:22:47 pm	-0.019 ✓	-70	4.68		1.00	1.00	1.00
K40QWC	UNK	12/18/08 10:25:05 pm	4.913 ✓	41641	2.59		1.00	1.00	1.00
K35NQ	UNK	12/18/08 10:27:24 pm	0.105	978	3.48		1.00	1.00	1.00
K35NQS	UNK	12/18/08 10:29:43 pm	4.891 ✓	41454	1.48		1.00	1.00	1.00
K35NQD	UNK	12/18/08 10:32:02 pm	4.916 ✓	41661	4.31		1.00	1.00	1.00
K4P1JB	UNK	12/18/08 10:34:21 pm	-0.018 ✓	-65	32.35		1.00	1.00	1.00
K4P1JC	UNK	12/18/08 10:36:41 pm	4.836 ✓	40985	3.45		1.00	1.00	1.00
K38MG	UNK	12/18/08 10:39:02 pm	-0.023 ✓	-101	1.70		1.00	1.00	1.00
K38MGP5	UNK	12/18/08 10:41:22 pm	-0.018 ✓	-59	4.45		1.00	1.00	1.00
CCV % Recovery 99.14 ✓	CCV	12/18/08 10:43:42 pm	4.957 ✓	42008	3.44		1.00	1.00	1.00
CCB	CCB	12/18/08 10:45:58 pm	-0.015	-37	7.79		1.00	1.00	1.00
K38MGS	UNK	12/18/08 10:48:15 pm	4.600 ✓	38991	2.51		1.00	1.00	1.00
TestAmerica							1392		1.004

Sample Name

Type Date/Time Conc μ Abs %RSD Flags Wt. Vol.
(ppb) ODF

K38MGD	UNK	12/18/08 10:50:33 pm	4.830 /	40932	2.68	1.00	1.00
						1.00	
K38M1	UNK	12/18/08 10:52:51 pm	-0.023	-102	4.51	1.00	1.00
						1.00	
K38M8	UNK	12/18/08 10:55:09 pm	-0.018	-64	8.57	1.00	1.00
						1.00	
K38NH	UNK	12/18/08 10:57:28 pm	-0.017	-55	10.40	1.00	1.00
						1.00	
K4FPN	UNK	12/18/08 10:59:47 pm	-0.018	-60	10.96	1.00	1.00
						1.00	
K4FPNS	UNK	12/18/08 11:02:06 pm	3.830 /	32476	1.75	1.00	1.00
						1.00	
K4FPND	UNK	12/18/08 11:04:26 pm	3.989 /	33826	2.75	1.00	1.00
						1.00	
K4FPR	UNK	12/18/08 11:06:46 pm	-0.019	-71	10.86	1.00	1.00
						1.00	
K4FPV	UNK	12/18/08 11:09:06 pm	-0.014	-25	18.51	1.00	1.00
						1.00	
CCV	CCV	12/18/08 11:11:26 pm	5.041 /	42720	2.28	1.00	1.00
% Recovery		100.82 /				1.00	
CCB	CCB	12/18/08 11:13:42 pm	-0.014 /	-28	18.59	1.00	1.00
						1.00	
K4FPX	UNK	12/18/08 11:16:03 pm	-0.014	-30	15.77	1.00	1.00
						1.00	
K4FP1	UNK	12/18/08 11:18:24 pm	-0.016	-49	10.18	1.00	1.00
						1.00	
K4FP2	UNK	12/18/08 11:20:41 pm	-0.017	-52	6.30	1.00	1.00
						1.00	
K4FP4	UNK	12/18/08 11:22:59 pm	-0.018	-61	3.10	1.00	1.00
						1.00	
K4FP6	UNK	12/18/08 11:25:17 pm	-0.018	-62	4.50	1.00	1.00
						1393	1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K40PLC	UNK	12/18/08 11:29:55 pm	4.901 /	41532	3.10		1.00	1.00 1.00
K4VLJ	UNK	12/18/08 11:32:14 pm	-0.021	-88	2.30		1.00	1.00 1.00
K4VLJS	UNK	12/18/08 11:34:34 pm	4.841 /	41028	3.22		1.00	1.00 1.00
K4VLJD	UNK	12/18/08 11:36:54 pm	4.778 /	40497	3.03		1.00	1.00 1.00
CCV % Recovery 101.12 /	CCV	12/18/08 11:39:14 pm	5.056 /	42844	2.97		1.00	1.00 1.00
CCB	CCB	12/18/08 11:41:30 pm	-0.016 /	-47	16.89		1.00	1.00 1.00
K4VL1	UNK	12/18/08 11:43:50 pm	-0.017	-53	5.84		1.00	1.00 1.00
K4VL2	UNK	12/18/08 11:46:11 pm	-0.014	-27	10.01		1.00	1.00 1.00
K4VL4	UNK	12/18/08 11:48:32 pm	-0.016	-43	10.32		1.00	1.00 1.00
K4VL8	UNK	12/18/08 11:50:53 pm	-0.018	-61	6.84		1.00	1.00 1.00
K4VMA	UNK	12/18/08 11:53:12 pm	-0.020	-79	1.33		1.00	1.00 1.00
K4VMC	UNK	12/18/08 11:55:30 pm	-0.004	61	7.84		1.00	1.00 1.00
K4VMD	UNK	12/18/08 11:57:49 pm	-0.018	-63	4.14		1.00	1.00 1.00
K4VMF	UNK	12/19/08 12:00:08 am	-0.018	-59	7.93		1.00	1.00 1.00
K4VMG	UNK	12/19/08 12:02:28 am	-0.009	12	105.85		1.00	1.00 1.00
K4VMH	UNK	12/19/08 12:04:48 am	-0.016	-43	8.04		1.00	1.00 1.00
CCV % Recovery 101.63 /	CCV	12/19/08 12:07:07 am	5.081 /	43061	2.84		1394 1.00	1.00 1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
CCB	CCB	12/19/08 12:09:23 am	-0.014 ✓	-31	13.74		1.00	1.00 1.00
K4VMJ	UNK	12/19/08 12:11:44 am	-0.007	33	16.74		1.00	1.00 1.00
K4VMK	UNK	12/19/08 12:14:04 am	-0.017	-50	5.71		1.00	1.00 1.00
K4XW7	UNK	12/19/08 12:16:25 am	-0.014	-29	20.12		1.00	1.00 1.00
K40P1B	UNK	12/19/08 12:18:46 am	-0.013 ✓	-23	16.51		1.00	1.00 1.00
K40P1C	UNK	12/19/08 12:21:08 am	4.831 ✓	40946	6.36 s		1.00	1.00 1.00
K4XMQ	UNK	12/19/08 12:23:30 am	-0.015	-36	9.06		1.00	1.00 1.00
K4XNH	UNK	12/19/08 12:25:48 am	-0.012	-8	65.28		1.00	1.00 1.00
K4XNK	UNK	12/19/08 12:28:07 am	-0.015	-40	8.52		1.00	1.00 1.00
K4XNL	UNK	12/19/08 12:30:26 am	-0.011	1	200.45		1.00	1.00 1.00
K4XPD	UNK	12/19/08 12:32:46 am	-0.011	-2	310.05		1.00	1.00 1.00
CCV	CCV	12/19/08 12:35:05 am	4.923 ✓	41721	2.85		1.00	1.00 1.00
% Recovery		98.46 ✓						
CCB	CCB	12/19/08 12:37:22 am	-0.015 ✓	-34	13.71		1.00	1.00 1.00
K4XQG	UNK	12/19/08 12:39:41 am	-0.014	-24	9.55		1.00	1.00 1.00
K4XQJ	UNK	12/19/08 12:42:02 am	-0.014	-24	8.39		1.00	1.00 1.00
K4XQM	UNK	12/19/08 12:44:22 am	-0.015	-36	6.17		1.00	1.00 1.00
K4XQP	UNK	12/19/08 12:46:43 am	0.645	5543	3.10		1.00	1.00 1.00
							1395	1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol.	ODF
K4XQT	UNK	12/19/08 12:49:04 am	-0.013	-23	12.59		1.00	1.00	1.00
K4XQV	UNK	12/19/08 12:51:26 am	-0.014	-30	20.66		1.00	1.00	1.00
K4XQD	UNK	12/19/08 12:53:48 am	-0.013	-17	21.48		1.00	1.00	1.00
K4TKT	UNK	12/19/08 12:56:10 am	-0.010	7	61.39		1.00	1.00	1.00
K4TKTS	UNK	12/19/08 12:58:29 am	4.497 ✓	38118	2.79		1.00	1.00	1.00
K4TKTD	UNK	12/19/08 01:00:48 am	3.858 ✓	32717	0.90		1.00	1.00	1.00
CCV	CCV	12/19/08 01:03:07 am	4.554 ✓	38603	2.52		1.00	1.00	1.00
% Recovery		91.08 ✓							
CCB	CCB	12/19/08 01:05:24 am	-0.017 ✓	-50	3.34		1.00	1.00	1.00
K4TKW	UNK	12/19/08 01:07:43 am	-0.008	25	36.42		1.00	1.00	1.00
K4TK0	UNK	12/19/08 01:10:03 am	-0.008	22	21.51		1.00	1.00	1.00
K4P07B	UNK	12/19/08 01:12:23 am	-0.018 ✓	-60	2.34		1.00	1.00	1.00
K4P07C	UNK	12/19/08 01:14:44 am	4.589 ✓	38895	3.43		1.00	1.00	1.00
K39HD	UNK	12/19/08 01:17:04 am	-0.002	76	8.38		1.00	1.00	1.00
K39HDP5	UNK	12/19/08 01:19:26 am	-0.012	-13	40.08		1.00	1.00	1.00
K39HDS	UNK	12/19/08 01:21:47 am	4.661 ✓	39509	3.93		1.00	1.00	1.00
K39HDD	UNK	12/19/08 01:24:09 am	4.550 ✓	38566	2.71		1.00	1.00	1.00
K39H0	UNK	12/19/08 01:26:31 am	0.005	131	7.07 s		1.00	1.00	1.00
TestAmerica							1396	1.00	1.00
								1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K39JG	UNK	12/19/08 01:28:54 am	-0.005	48	16.70		1.00	1.00
							1.00	
CCV	CCV	12/19/08 01:31:13 am	4.932 ✓	41795	3.38		1.00	1.00
% Recovery		98.64 ✓					1.00	
CCB	CCB	12/19/08 01:33:30 am	-0.016 ✓	-49	2.71		1.00	1.00
							1.00	
K4C8Q	UNK	12/19/08 01:35:49 am	-0.008	21	21.34		1.00	1.00
							1.00	
K4C8QS	UNK	12/19/08 01:38:08 am	5.008 ✓	42442	2.67		1.00	1.00
							1.00	
K4C8QD	UNK	12/19/08 01:40:28 am	4.942 ✓	41885	2.84		1.00	1.00
							1.00	
K4C8W	UNK	12/19/08 01:42:48 am	-0.006	40	14.99		1.00	1.00
							1.00	
K4C8X	UNK	12/19/08 01:45:09 am	-0.010	9	57.51		1.00	1.00
							1.00	
K4C8XS	UNK	12/19/08 01:47:30 am	3.945 ✓	33452	3.10		1.00	1.00
							1.00	
K4C8XD	UNK	12/19/08 01:49:51 am	4.542 ✓	38503	3.72		1.00	1.00
							1.00	
K4JJW	UNK	12/19/08 01:52:12 am	-0.012	-11	33.88		1.00	1.00
							1.00	
K4JJWS	UNK	12/19/08 01:54:34 am	4.795 ✓	40643	4.39		1.00	1.00
							1.00	
K4JJWD	UNK	12/19/08 01:56:57 am	4.934 ✓	41816	3.16		1.00	1.00
							1.00	
CCV	CCV	12/19/08 01:59:15 am	4.608 ✓	39057	2.60		1.00	1.00
% Recovery		92.16 ✓					1.00	
CCB	CCB	12/19/08 02:01:32 am	-0.016 ✓	-45	6.86		1.00	1.00
							1.00	
K4JK2	UNK	12/19/08 02:03:55 am	-0.008	24	8.01		1.00	1.00
							1.00	
K4JLD	UNK	12/19/08 02:06:18 am	0.011	187	6.84 s		1.00	1.00
TestAmerica							1.00	1.00

1397

1.069

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol.
							ODF	
K4JLJ	UNK	12/19/08 02:08:37 am	-0.011	-1	195.39		1.00	1.00
							1.00	
K4P1AB	UNK	12/19/08 02:10:57 am	-0.018 ✓	-58	8.06		1.00	1.00
							1.00	
K4P1AC	UNK	12/19/08 02:13:17 am	4.633 ✓	39265	3.14		1.00	1.00
							1.00	
K39KC	UNK	12/19/08 02:15:38 am	-0.021	-84	4.79		1.00	1.00
							1.00	
K39KCP5	UNK	12/19/08 02:17:59 am	-0.016 ✓	-45	13.87		1.00	1.00
							1.00	
K39KCS	UNK	12/19/08 02:20:20 am	4.890 ✓	41442	3.16		1.00	1.00
							1.00	
K39KCD	UNK	12/19/08 02:22:41 am	4.391 ✓	37224	3.42		1.00	1.00
							1.00	
K39K8	UNK	12/19/08 02:25:03 am	0.010	179	4.70		1.00	1.00
							1.00	
CCV	CCV	12/19/08 02:27:22 am	4.857 ✓	41165	3.40		1.00	1.00
% Recovery		97.14 ✓					1.00	
CCB	CCB	12/19/08 02:29:39 am	-0.016 ✓	-48	3.87		1.00	1.00
							1.00	
K39LA	UNK	12/19/08 02:32:01 am	0.956	8178	5.46 s		1.00	1.00
							1.00	
K40N8B	UNK	12/19/08 02:34:24 am	-0.018 ✓	-59	7.04		1.00	1.00
							1.00	
K40N8C	UNK	12/19/08 02:36:47 am	4.555 ✓	38610	3.38		1.00	1.00
							1.00	
K4HAV	UNK	12/19/08 02:39:10 am	0.001	95	9.97		1.00	1.00
							1.00	
K4HA8	UNK	12/19/08 02:41:30 am	-0.018	-63	5.50		1.00	1.00
							1.00	
K4P1K	UNK	12/19/08 02:43:50 am	124.000	1048705	0.00	S	1.00	1.00
							1.00	
K4P1K8	UNK	12/19/08 02:55:23 am	123.180	1041756	0.00	S	1.00	1.00
							1.00	

MA ↑ samples > LR see 100x at end.

1398

TestAmerica CS 12/19/08

1.00⁷⁰

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol.	ODF
K4P1KD	UNK	12/19/08 03:04:33 am	122.450	1035585	0.00	S	1.00	1.00	1.00
<i>NA see 100x at end. 12/19/08</i>									
K4P1L	UNK	12/19/08 03:11:17 am	57.258	484286	2.60	O	1.00	1.00	1.00
<i>Sample > LR see 10x at end. 12/19/08</i>									
K4P1M	UNK	12/19/08 03:16:36 am	3.899	33064	2.83		1.00	1.00	1.00
CCV	CCV	12/19/08 03:18:55 am	4.506 ✓	38198	2.61		1.00	1.00	1.00
% Recovery		90.13 ✓							
CCB	CCB	12/19/08 03:21:12 am	-0.066 ✓	-471	4.10		1.00	1.00	1.00
K4P1N	UNK	12/19/08 03:23:34 am	6.530	55315	6.92	s	1.00	1.00	1.00
K4P1P	UNK	12/19/08 03:25:56 am	3.129	26548	3.00		1.00	1.00	1.00
K4P1Q	UNK	12/19/08 03:28:19 am	4.092	34694	4.28		1.00	1.00	1.00
K4P1R	UNK	12/19/08 03:30:42 am	0.389	3381	2.73		1.00	1.00	1.00
K4P1T	UNK	12/19/08 03:33:06 am	0.985	8420	3.83		1.00	1.00	1.00
CCV	CCV	12/19/08 03:35:24 am	4.866 ✓	41238	2.32		1.00	1.00	1.00
% Recovery		97.32 ✓							
CCB	CCB	12/19/08 03:37:41 am	-0.121 ✓	-934	2.63		1.00	1.00	1.00
K4RED	UNK	12/19/08 03:40:05 am	0.087	827	20.02	s	1.00	1.00	1.00
K4VQV	UNK	12/19/08 03:42:26 am	-0.076	-550	18.01		1.00	1.00	1.00
K4VQW	UNK	12/19/08 03:44:46 am	0.346	3018	5.99	s	1.00	1.00	1.00
K4VQ0	UNK	12/19/08 03:47:07 am	-0.048	-318	7.17		1.00	1.00	1.00
K4VQ1	UNK	12/19/08 03:49:29 am	-0.069	-490	6.65		1.00	1.00	1.00

1399

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags	Wt.	Vol.	ODF
K4VQ2	UNK	12/19/08 03:51:50 am	-0.064	-448	32.17		1.00	1.00	1.00
CCV % Recovery 94.68 ✓	CCV	12/19/08 03:54:09 am	4.734 ✓	40124	2.38		1.00	1.00	1.00
CCB	CCB	12/19/08 03:56:26 am	-0.100 ✓	-754	2.70		1.00	1.00	1.00
CCV % Recovery 101.31 ✓	CCV	12/19/08 08:46:34 am	5.065 ✓	42924	2.57		1.00	1.00	1.00
CCB	CCB	12/19/08 08:48:51 am	-0.129 ✓	-999	0.69		1.00	1.00	1.00
K4P1K 100X	UNK	12/19/08 08:51:12 am	6.811 ✓	57690	4.36		1.00	1.00	1.00
K4P1KS 100X	UNK	12/19/08 08:55:03 am	6.457 ✓	54692	4.55		1.00	1.00	1.00
K4P1KD 100X	UNK	12/19/08 08:57:24 am	8.368 ✓	70857	1.92		1.00	1.00	1.00
K4P1L 10X	UNK	12/19/08 08:59:46 am	4.851 ✓	41113	2.84		1.00	1.00	1.00
CCV % Recovery 98.88 ✓	CCV	12/19/08 09:02:05 am	4.944 ✓	41897	3.63		1.00	1.00	1.00
CCB	CCB	12/19/08 09:04:22 am	-0.114 ✓	-875	1.61		1.00	1.00	1.00