

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

<b>Client Name/Address:</b> MWH-Arcadia 618 Michilinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak		<b>Project:</b> Boeing-SSFL NPDES Routine Outfall 010 Stormwater at Building 203		ANALYSIS REQUIRED		Field readings: Temp = 50°F pH = 7.02 Time of readings = 1050							
<b>Project Manager:</b> Bronwyn Kelly Sampler: J. W. ...		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl		Chronic Toxicity (901.0 or 901.1) (908.0), K-40, CS-137 228 (904.0), Uranium (903.0 or 903.1) & Radium Combined Radium 226 (906.0), Sr-90 (905.0), Total Beta(900.0), Tritium (H-3) Gross Alpha(900.0), Gross (903.0 or 903.1) & Radium							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	TDS	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3)	Oil & Grease (1664-HEM)	TCDD (and all congeners)	Cd, Cu, Pb, Hg, Tl	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl	Comments
Outfall 010	W	1L Poly	1	12/15/08	HNO <sub>3</sub>	1A							
Outfall 010-Dup	W	1L Poly	1	12/15/08	HNO <sub>3</sub>	1B							
Outfall 010	W	1L Amber	2		None	2A, 2B							
Outfall 010	W	1L Amber	2		HCl	3A, 3B							
Outfall 010	W	500 ml Poly	2		None	4A, 4B							
Outfall 010	W	500 ml Poly	1		None	5	X						
Outfall 010	W	2.5 Gal Cube 500 ml Amber	1		None	6A							
Outfall 010	W	500 ml Amber	1		None	6B							
Outfall 010	W	1 Gal Poly	1		None	7							
Outfall 010	W	1L Poly	1		None	8							
Relinquished By		Date/Time:		Received By		Date/Time:		Turn around Time: (check)		Sample Integrity: (check)		Data Requirements: (check)	
Joe Mansel		12/15/08		J. Kelly		12/15/08 1530		24 Hours <input checked="" type="checkbox"/> 5 Days <input checked="" type="checkbox"/>		Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>		No Level IV <input type="checkbox"/> All Level IV <input type="checkbox"/>	
Relinquished By		Date/Time:		Received By		Date/Time:		72 Hours <input type="checkbox"/> Normal <input type="checkbox"/>		Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>		NPDES Level IV <input checked="" type="checkbox"/>	
J. Kelly		12/15/08 1815		[Signature]		12/15/08 1815		48 Hours <input type="checkbox"/> 10 Days <input type="checkbox"/>		Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>		NPDES Level IV <input checked="" type="checkbox"/>	

Handwritten note: "Test first and second rain event of the season" circled in red.

## ANALYTICAL REPORT

MWH-Pasadena / Boeing

Lot D8L170248

Project IRL1710

Joseph Doak  
17461 Derian Avenue  
Suite 100  
Irvine, CA 92614

TestAmerica Laboratories, Inc.

  
Danielle Fougere  
Project Manager

December 22, 2008

## Case Narrative

Enclosed is the report for one sample received at TestAmerica Laboratories, Inc. – Denver laboratory on December 17, 2008. The results included in this report relate only to the samples in this report and have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

This report may include reporting limits (RLs) less than the Denver laboratory's standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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### Quality Control Summary for Lot D8L170248

#### **Sample Receiving**

The cooler temperature for the sample received on December 17, 2008 at the Denver laboratory was 2.6°C. All sample containers were received in acceptable condition.

#### **Total Mercury –Method 245.1**

Matrix spike analyses for QC batch 8353495 were performed on a sample from another client and/or lot, and were outside control limits.

No other anomalies were observed.

#### **Dissolved Mercury –Method 245.1**

Matrix spike analyses for QC batch 8353517 were performed on a sample from another client and/or lot, and were outside control limits.

No other anomalies were observed.

## Quality Control Definitions of Qualifiers

Qualifier	Definition
U	Result is less than the method detection limit (MDL).
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentrations exceed the calibration range.
p	Relative Percent Difference (RPD) is outside control limits.
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
DIL	The concentration is estimated or not reported due to dilution.
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
CHI	More than 40% difference between the primary and confirmation detector results. The higher of the two results is reported.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
a	Spiked analyte recovery is outside stated control limits.
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
MSB	The recovery and/or RPD were not calculated because the sample amount was greater than four times the spike amount.

IRL  
2.6  
12/17/8

**SUBCONTRACT ORDER**

**TestAmerica Irvine**

**IRL1710**


**SENDING LABORATORY:**


TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak  
Client: MWH-Pasadena/Boeing

**RECEIVING LABORATORY:**


TestAmerica Denver  
4955 Yarrow Street  
Arvada, CO 80002  
Phone : (303) 736-0100  
Fax: (303) 431-7171  
Project Location: CA - CALIFORNIA  
Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
<b>Sample ID: IRL1710-01</b>	<b>Water</b>					
			<b>Sampled: 12/15/08 10:50</b>			<b>Instant Notification</b>
Level 4 + EDD-OUT	N/A	12/22/08	01/12/09 10:50	\$0.00	25%	Sub to Denver, transfer file EDD
Mercury - 245.1, Diss -OUT	ug/l	12/22/08	01/12/09 10:50	\$36.00	25%	Denver, Boeing, J flags
Mercury - 245.1-OUT	ug/l	12/22/08	01/12/09 10:50	\$36.00	25%	Denver, Boeing, permit, J flags
<i>Containers Supplied:</i>						
1 L Poly w/HNO3 (B)	125 mL Poly (N)					

Released By  Date/Time 12/16/08 17:00

Received By  Date/Time 12/16/08 17:00 1155

TestAmerica  
Released By \_\_\_\_\_ Date/Time \_\_\_\_\_

Received By  Date/Time 12/16/08 17:00 1155  
Page 1 of 1

*TestAmerica Denver*  
**Sample Receiving Checklist**

Lot #: D82170248 Date/Time Received: 12/17/09 09:45

Company Name & Sampling Site: TA Irvine

PM to Complete This Section: *Yes* *No*  
 Residual chlorine check required:   Quarantined:

Quote #: 72743

Special Instructions:

Time Zone:  
 • EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

**Unpacking Checks:**

Cooler #(s): 1

Temperatures (°C): 2.1e

N/A Yes No

*Initials*  


- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Coolers scanned for radiation. Is the reading ≤ to background levels? Yes: ✓ No:
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative  HCl  4±2°C  Sodium Thiosulfate  Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?



# EXECUTIVE SUMMARY - Detection Highlights

D8L170248

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>NO DETECTABLE PARAMETERS</b>				



# METHODS SUMMARY

D8L170248

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Dissolved Mercury (CVAA)	MCAWW 245.1	MCAWW 245.1
Mercury (Manual Cold Vapor Technique)	MCAWW 245.1	MCAWW 245.1

## References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

# METHOD / ANALYST SUMMARY

D8L170248

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 245.1	Christopher Grisdale	9582

**References:**

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

# SAMPLE SUMMARY

D8L170248

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K4V63	001	IRL1710-01	12/15/08	10:50

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# QC DATA ASSOCIATION SUMMARY

D8L170248

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 245.1		8353495	8353297
	WATER	MCAWW 245.1		8353517	8353310

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Total Metals

Lot ID: D8L170248

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 8353495

TOTAL Metals  
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine SDG No.: D8L170248  
Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_  
SOW No.: \_\_\_\_\_

Sample ID. Lab Sample No.  
IRL1710-01 D8L170248-001

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: 

Name: Yongming Ding

Date: 12/20/2008

Title: Analyst V 1164

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D8L170248  
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: IRL1710-01  
Lab Sample ID: D8L170248-001  
Lab WorkOrder: K4V63  
Date/Time Collected: 12/15/08 10:50  
Date/Time Received: 12/17/08 09:45  
Date Leached:  
Date/Time Extracted: 12/18/08 16:30  
Date/Time Analyzed: 12/18/08 21:41  
Instrument ID: 023

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

**TOTAL Metals**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8L170248

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	5.033	100.7	4.765	95.3	CV

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



TOTAL Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8L170248

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	5.070	101.4			CV

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

**TOTAL Metals**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D8L170248

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	Found	%R
Mercury	0.200	0.16800	84.0					

Comments:

TestAmerica

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D8L170248  
Matrix: WATER  
% Moisture:  
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: D8L180000-495B  
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 21:13  
Instrument ID: 023

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

**TOTAL Metals**

-3-

**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8L170248

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
		1	2	3					
Mercury	-0.030	0.027	0.027	0.027			0.027		

Comments:

1170

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8L170248  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8353495  
**MS Sample Aliquot:** 10 mL  
**MS Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**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 21:25  
**Instrument ID:** 023

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	4.24		85	N	90 - 110

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8L170248  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 8353495  
**MSD Sample Aliquot:** 10 mL  
**MSD Dilution Factor:** 1

**Client Sample ID:** LAB MS/MSD  
**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 21:27  
**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	4.64		93		9.0		90 - 110	10

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8L170248  
**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.: D8L170248

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.: D8L170248

Method: CV Prep Method: \_\_\_\_\_

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	12/18/2008	10.0	10.0
LAB MS	12/18/2008	10.0	10.0
LAB MSD	12/18/2008	10.0	10.0
IRL1710-01	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.: D8L170248  
 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 A	V L	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			
INTRA-LAB OC	1.00	21:18																										X			
CCV	1.00	21:20																										X			
CCB	1.00	21:22																										X			
LAB MS	1.00	21:25																										X			
LAB 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																													
IRL1710-01	1.00	21:41																										X			
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.: D8L170248

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																									X				
CCB	1.00	21:50																									X				

\* - 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: D8L170248

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 8353517

DISSOLVED Metals  
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine SDG No.: D8L170248  
Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_  
SOW No.: \_\_\_\_\_

Sample ID. Lab Sample No.  
IRL1710-01 D8L170248-001

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 1179

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

<b>Lab Name:</b>	<u>TESTAMERICA DENVER</u>	<b>Client Sample ID:</b>	<u>IRL1710-01</u>
<b>Lot/SDG Number:</b>	<u>D8L170248</u>	<b>Lab Sample ID:</b>	<u>D8L170248-001</u>
<b>Matrix:</b>	<u>WATER</u>	<b>Lab WorkOrder:</b>	<u>K4V63</u>
<b>% Moisture:</b>	<u>N/A</u>	<b>Date/Time Collected:</b>	<u>12/15/08 10:50</u>
<b>Basis:</b>	<u>Wet</u>	<b>Date/Time Received:</b>	<u>12/17/08 09:45</u>
<b>Analysis Method:</b>	<u>245.1</u>	<b>Date Leached:</b>	
<b>Unit:</b>	<u>ug/L</u>	<b>Date/Time Extracted:</b>	<u>12/18/08 16:30</u>
<b>QC Batch ID:</b>	<u>8353517</u>	<b>Date/Time Analyzed:</b>	<u>12/18/08 22:13</u>
<b>Sample Aliquot:</b>	<u>10 mL</u>	<b>Instrument ID:</b>	<u>023</u>
<b>Dilution Factor:</b>	<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.: D8L170248

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.: D8L170248

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.: D8L170248

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 Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8L170248  
**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:** K40QJ  
**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**

-3-

**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D8L170248

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		
Mercury	-0.030	B	0.027	U	0.027	U	0.027	U	CV

Comments:

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D8L170248  
**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:** LAB MS/MSD  
**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:** D8L170248  
**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:** LAB MS/MSD  
**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:** D8L170248  
**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.: D8L170248

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.: D8L170248

Method: CV Prep Method: \_\_\_\_\_

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
INTRA-LAB QC	12/18/2008	10.0	10.0
LAB MS	12/18/2008	10.0	10.0
LAB MSD	12/18/2008	10.0	10.0
IRL1710-01	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.: D8L170248

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	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			
INTRA-LAB QC	1.00	21:55																										X			
LAB MS	1.00	21:57																										X			
LAB 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



# Metals

## Supporting Documentation

Sample Sequence, Instrument Printouts

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D8L170248

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 Gisdale 12/19/08

1193

# *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>
D8L170248	1	HG	K4V631AC	20081218	M2451DS	8353517	081218AB	023
D8L170248	1	HG	K4V631AA	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
---------------------	--------------	-------------------------	--------------

<b>Balance ID:</b> H53865	<b>Thermometer ID:</b> 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: CG

**Reagents Used**

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

1196


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
---------------------	--------------	-------------------------	--------------

<b>Balance ID:</b> H53865	<b>Thermometer ID:</b> 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 <sub>3</sub>	JT Baker	G25032		0.25
H <sub>2</sub> SO <sub>4</sub>	Fisher	E49F06		0.5
HCl	JT Baker	G36024		used by instrument
10% SnCl <sub>2</sub>	Fisher	G20637	STD-7206-08	added by instrument
NaCl / NH <sub>2</sub> OH	Fisher	G28617	STD-7208-08	0.6
	Fisher	G06476		
KMnO <sub>4</sub>	Fisher	E8585	STD-7207-08	1.5
K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	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.

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**

