CHAIN OF CUSTODY FORM Test America version 12/20/07

Page 1 of

est first and second rain event of the Unfiltered and unpreserved analysis lab Filter w/in 24hrs of receipt at Time of readings = (050 Turn around Time: (check) X 24 Hours 5 Days Sample Integrity: (check)
Intact On Ice: Data Requirements: (check)
No Level IV _____ All Level IV 10 Days Normal Comments 50°F 7:07 Field readings: NPDES Level IV Temp = 48 Hours 72 Hours ANALYSIS REQUIRED Cq, Cu, Pb, Hg, Ti × Total Dissolved Metals: Sb, Chronic Toxicity 1530 (1.10e no 0.10e) (908.0), K-40, CS-137 Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium × SOST 21 Date/Time: Gross Alpha(900.0), Gross × **SQT** CL' 204' NO3+NO5-N Oil & Grease (1664-HEM) × TCDD (sud all congeners) Sb, Cd, Cu, Pb, Hg, Tl × Total Recoverable Metals: Received By Received B 3 Š 3A, 3B .• 2A, 2B 👀 4B Bottle # 68 68 ₹ 9 / α Stormwater at Building 203 Boeing-SSFL NPDES Routine Outfall 010 Preservative (626) 568-6691 Fax Number: (626) 568-6515 None HNO3 None None None None None Project Manager: Bronwyn Kelly | Phone Number None 17 (16/08 HNO3 Sampling Date/Time Date/Time: Date/Time: Date/Time Project: JSS2/ 30/21/21 Cont. Test America Contact: Joseph Doak 618 Michillinda Avenue, Suite 200 2.5 Gal Cube 500 ml Amber 1 Gal Poly Container Type 1L Amber 1L Amber 1L Poly 500 ml Poly 500 ml Poly Sampler: I want scal 1L Poly 1L Poly Client Name/Address: Sample Matrix BasinaM ang MWH-Arcadia Arcadia, CA 91007 Relinquisped, By Relinquished By Relinduished B ≥ ≥ ≥ ≥ ≥ ≥ ≥ Outfall 010-Description Outfall 010 Outfall 010



TestAmerica Laboratories, Inc.

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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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).
В	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.
р	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.
<u>a</u>	Spiked analyte recovery is outside stated control limits.
N N	Spiked analyte recovery is outside stated control limits.
NC 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.

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:

 $^{\circ}$ C

Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price S	urch	Comments
Sample ID: IRL1710-01	Water		Sampled	<u>: 12/15/</u> 08 10:50	Inst	tant Nofication
Level 4 + EDD-OUT	N/A	12/22/08	01/12/09 10:50			Sub to Denver, transfer file EDD
Mercury - 245.1, Diss -OUT	ug/l	12/22/08	01/12/09 10:50	\$36.00		Denver, Boeing, J flags
Mercury - 245.1-OUT	ug/l	12/22/08	01/12/09 10:50			Denver, Boeing, permit, J flags
Containers Supplied:						, 3,1,,
1 L Poly w/HNO3 (B) 1	25 mL Poly (N)				

Released By Date/Time

Released Byrica

Date/Time

Page 1 of 1

TestAmerica Denver

Sample Receiving Checklist

Lot #:_	D82	170248	Date/Time Received:	12/17/48/09/45
Compa	ny Nan	ne & Sampling Site:	The Trune	
	chlorine	This Section: Yes No check required: □	<i>Yes</i> Quarantined : □	No
Special Ir	structio	ns:		
Time Zon • EDT/ES		T/CST • MDT/MST • PDT/PST • C	OTHER	
Unpack:	ing Ch			
		: 2,Le		
N/A Yes				1 Mids
		. Cooler seals intact? (N/A if hand o	delivered) If no, document on CUR	
6	□ 2.	. Coolers scanned for radiation. Is the	ne reading ≤ to background levels?	Yes: No:
\mathbb{Z}	□ 3.	Chain of custody present? If no, do	cument on CUR.	
ū	2 4.	Bottles broken and/or are leaking?	If yes, document on CUR.	
	2 5.	Multiphasic samples obvious? If ye	es, document on CUR.	
P	□ 6.	Proper container & preservatives us	sed? (ref. Attachment D of SOP# D	V-QA-0003) If no, document on CUR.
	□ 7.	pH of all samples checked and mee	t requirements? If no, document or	CUR.
4	8.	Sufficient volume provided for all a document on CUR, and contact PM		t D of SOP# DV-QA-0003) If no,
	Ū 9.	Did chain of custody agree with lab	els ID and samples received? If no	document on CUR.
0	🗀 10.	Were VOA samples without headsp	pace? If no, document on CUR.	
	D 11.	Were VOA vials preserved? Preser	vative DHCl D4±2°C DSodium	Thiosulfate 🗆 Ascorbic Acid
	12.	Did samples require preservation with	ith sodium thiosulfate?	
	1 3.	If yes to #11, did the samples contain	in residual chlorine? If yes, docume	ent on CUR.
	□ 14.	Sediment present in dissolved/filtered	ed bottles? If yes, document on CU	R.
20 1	1 5.	Is sufficient volume provided for clicontact PM before proceeding.	ent requested MS, MSD or matrix	duplicates? If no, document on CUR, and
-12	1 6.	Receipt date(s) > 48 hours past the c	collection date(s)? If yes, notify PA	Δ/PM.
ر ت	17.	Are analyses with short holding time	es requested?	
9/	18.	Was a quick Turn Around (TAT) re-	quested?	1156

5

TestAmerica Denver

Sample Receiving Checklist

Lo	t #	<u>D8</u>	21	70248	
Lo	gin C	Chec	ks:		Initials
N/A	Yes	No			<u>~</u>
	Ø		19.	Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) document on CUR, and contact PM before proceeding.	If no,
7			20.	Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document of contact PM before proceeding.	on CUR, and
	Ø,		21.	. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?	
Ö	Ø		22.	Were special log in instructions read and followed?	
ď			23.	Were AFCEE metals logged for refrigerated storage?	
	Ø		24.	Were tests logged checked against the COC? Which samples were confirmed?/	
			25.	Was a Rush form completed for quick TAT?	
P		٥	26.	Was a Short Hold form completed for any short holds?	
		'	27.	Were special archiving instructions indicated in the General Comments? If so, what were they?	
Lal	oeling	g an	d S	torage Checks:	Initials
Ø			28.	Was the subcontract COC signed and sent with samples to bottle prep?	
			29.	Were sample labels double-checked by a second person?	
Ø			30.	Were sample bottles and COC double checked for dissolved/filtered metals by a second person?	
	4	O	31.	Did the sample ID, Date, and Time from label match what was logged?	
a ,			32.	Were stickers for special archiving instructions affixed to each box? See #27	
			33.	Were AFCEE metals stored refrigerated?	

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

EXECUTIVE SUMMARY - Detection Highlights

D8L170248

PARAMETER RESULT LIMIT UNITS METHOD

NO DETECTABLE PARAMETERS

METHODS SUMMARY

D8L170248

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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", ${\rm EPA-600/4-79-020}$, March 1983 and subsequent revisions.

METHOD / ANALYST SUMMARY

D8L170248

ANALYTICAL METHOD MCAWW 245.1		ANALYST	ANALYST ID
		Christopher Grisdale	9582
Referen	ces:		
MCAWW		al Analysis of Water and Wastes", arch 1983 and subsequent revision	

SAMPLE SUMMARY

D8L170248

<u>wo # s</u>	AMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
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

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

<u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

Total Metals

Lot ID: <u>D8L170248</u>

Client: <u>TestAmerica Irvine</u>

Method: <u>245.1</u>

Associated Samples: <u>001</u>

Batch: <u>8353495</u>

Contract:

Lab Code:

SOW No .:

TOTAL Metals COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE TestAmerica Irvine Case No.: SAS No.: Sample ID. 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:	y fongming Do	Name:	Yongming Ding	
			-	
Date:	12/20/2008	Title:	Analyst V	1164



Total Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID:

IRL1710-01

Lot/SDG Number:

D8L170248

Lab Sample ID:

D8L170248-001

Matrix:

WATER

Lab WorkOrder:

K4V63

% Moisture:

N/A

Date/Time Collected:

12/15/08 10:50

Basis:

Wet

Date/Time Received:

12/17/08 09:45

Analysis Method:

245.1

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30

QC Batch ID:

Date/Time Analyzed:

12/18/08 21:41

Sample Aliquot:

8353495 10 mL

Instrument ID:

<u>023</u>

Dilution Factor:

1

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

Mercury

TOTAL Metals

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:	TestAmeric	a Irvin	е								
Lab Code:	Case		se No.: SAS No.		SAS No.:		SDG	No.:	D8L170248		
Initial Ca	libration So	ırce:	Inorganic '	Ventures	5						
Continuing	Calibration	Source:	Ultra	Scienti	lfic						
			Concentrati	on Units	s: ug/L						
Initial			Calibration		Conti	nuing Calib	ration				
Ana	lyte T	rue	Found	%R(1)	True	Found	%R(1)	Found	1 %R(1)	м	

7.000

6.732

96.2

5.000

4.765

5.033 100.7

95.3

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

Analyte

Mercury

True

Found

%R(1)

TOTAL Metals

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:	TestAmerica Irvin						
Lab Code:	Case	No.:	SAS No.:		EDG NO.:	D8L170248	<u></u>
Initial Ca	libration Source:	Inorganic V	entures		-		
Continuing	Calibration Source:	Ultra Scientific					
		Concentration	n Units: ug/L				
	Initial	Calibration	Con	tinuing Calibration	n.		

True

5.000

Found

Found

%R(1)

%R(1)

5.070 101.4

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

TOTAL Metals -2BCRDL STANDARD FOR AA AND ICP

Contract:	TestAmerica	Irvine			_		
Lab Code:		Case No.:		SAS No.:		SDG No.:	D8L170248
AA CRDL Sta	andard Source:	Ultra	Scientific				
ICP CRDL S	tandard Source:	:					

Concentration Units: ug/L

	CRDL Stand	ard for AA		In	<u>-</u>			
Analyte	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.16800	84.0					



Total Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID: Lab Sample ID:

D8L180000-495B

Lot/SDG Number: Matrix:

D8L170248

Lab WorkOrder:

WATER

K40NQ

% Moisture:

Basis:

<u>Wet</u>

Date/Time Collected:

Date/Time Received:

Analysis Method:

245.1

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30

QC Batch ID:

8353495

Date/Time Analyzed:

12/18/08 21:13

Sample Aliquot: **Dilution Factor:** <u>10 mL</u>

1

Instrument ID:

<u>023</u>

CAS No.	Analyte	Conc.	Conc. MDL		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/wat	er): WATER		
Preparation	Blank Concentration Un	nits (ug/L or mg/kg):	UG/L	

Analyte	Initial Calib. Blank		Continuing Calibration Blank (ug/L)						Preparation Blank		
	(ug/L) C	С	1	C	2	c	3	С		С	м
Mercury	-0.03	30 B	0.02	ן ט 72	0.0	טן 27	0.02	7 ט	0.027	ע	cv



Total Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID:

LAB MS/MSD

Lot/SDG Number:

D8L170248

MS Lab Sample ID:

D8L170200-001S

Matrix:

WATER

MS Lab WorkOrder:

<u>K4VTJ</u>

% Moisture:

<u>N/A</u>

12/15/08 10:58

Basis:

<u>Wet</u>

Date/Time Collected: Date/Time Received:

12/17/08 09:45

Analysis Method:

<u>245.1</u>

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30

QC Batch ID:

8353495

Date/Time Analyzed:

12/18/08 21:25

MS Sample Aliquot:

<u>10 mL</u>

Instrument ID:

<u>023</u>

MS Dilution Factor:

1

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



Total Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID:

LAB MS/MSD

Lot/SDG Number:

D8L170248

MSD Lab Sample ID:

D8L170200-001D

Matrix:

WATER

MSD Lab WorkOrder:

K4VTJ

% Moisture:

<u>N/A</u>

Date/Time Collected:

12/15/08 10:58

Basis:

Unit:

Wet

Date/Time Received:

12/17/08 09:45

Analysis Method:

<u>245.1</u>

Date Leached:

QC Batch ID:

ug/L

Date/Time Extracted: Date/Time Analyzed:

12/18/08 16:30

MSD Sample Aliquot:

8353495

Instrument ID:

12/18/08 21:27 <u>023</u>

<u>10 mL</u>

MSD Dilution Factor: 1

Analyte	1 1	Sample	C	MSD Result	С	% Rec	Q	RPD	Q	QC Limits	
Anaryte		Result								% Rec	RPD
Mercury	5.00	0.027	U	4.64		93		9.0		90 - 110	10



Total Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID: Lab Sample ID:

Lot/SDG Number:

D8L170248

D8L180000-495C

Matrix:

WATER

Lab WorkOrder:

<u>K40NQ</u>

% Moisture:

N/A

Date/Time Collected:

Basis:

<u>Wet</u>

Date/Time Received:

Analysis Method:

<u>245.1</u>

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30 12/18/08 21:15

QC Batch ID: Sample Aliquot: 8353495 <u>10 mL</u>

Date/Time Analyzed: **Instrument ID:**

<u>023</u>

Dilution Factor:

1

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

TOTAL Metals

-10-

DETECTION LIMITS

Contract:	<u>TestAmerica</u>	Irvine				
Lab Code:		Case No.:	SAS No	.:	SDG NO.:	D8L170248
ICP ID Num	er:		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)	м
Mercury	253.70		0.20	0.027	cv

Comments:	
	1174

TOTAL Metals

-13-

PREPARATION LOG

Contract:	TestAmerica Ir	vine					
Lab Code:	-	Case No.:	1	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

TOTAL Metals -14-

ANALYSIS RUN LOG

Contract:	TestAmeric	a Irvine		_				
Lab Code:		Case No.:		SAS No.:		SDG No.:	D8L170248	
Instrument	ID Number:	Cetac M7500 Hg	700	Method:	cv			
Start Date:	12/18/200)8		End Date:	12/18/2008	3		

tart Date: 12/1	8/2008							En	d I)at	e:			/ 1·	8/2	_				_							
g.,										•			2	Ana	ly:	tes	3										
Sample ID.	D/F	Time	% R	A	s B	A S		B E	C D	C A	C R	C 0	G G	F E		M G		H G	N	K	S E	A G	N A		v	z N	Ī
Cal Blank	1.00	20:29																х					П				İ
Std1	1.00	20:32															ĺ	х					П				İ
Std2	1.00	20:34													Ì			x					Π				İ
Std3	1.00	20:36																х					T		Ī		İ
Std4	1.00	20:38													T			х						İ			İ
Std5	1.00	20:41													j			х					Π	Ì			İ
Std6	1.00	20:43										Ì						х					Π	İ			İ
ICB	1.00	20:46								T		İ	T		寸			ж	İ				一				İ
ICV	1.00	20:48								T					T			х	i				Ħ	T			İ
RL	1.00	20:50								T		İ		T				х	T				П	Ì	Ì		İ
ccv		20:52		Г								T		T	寸		T	х					П	T	j		İ
ССВ		20:55										T	T	T	Ť			х	d				Πİ	Ħ	7		İ
ZZZZZZ	1.00	20:57								j		j	j	T	一		i		T					寸			İ
ZZZZZZ		20:59								i				T	j	Ī	ij	* 1	寸				Ħ		Ť		İ
ZZZZZZ		21:02								T	\neg	T	寸	寸	T		ij		ij				T	j			İ
ZZZZZZ		21:04								T		T	一		j		i	T					寸	T	一		İ
ZZZZZZ		21:06								一		T	ij	T		j	寸	ᅥ	1				T	寸	T		ľ
ZZZZZZ		21:08								j		寸	T	T	1		寸	T	T				T	T			İ
ZZZZZZ		21:11								寸	┪	T	寸	寸	Ť	٦	寸						寸	┪	寸		ľ
MB8353495		21:13								Ť	\neg	寸	寸	7	寸	寸	寸	х		ij	j		寸	┪	┪		ľ
Check Sample		21:15								寸	一	ij	T	7	寸	1	T	x	7				寸	寸	1	ij	ľ
INTRA-LAB OC		21:18								1		T	寸	寸	┪	┪	寸	х	7	j	T	ᅥ	┪	┪	寸		r
ccv		21:20								寸	寸	寸	T	寸	1	1	\forall	х	┪	ᅥ	┪	一	寸	Ť	1	寸	ľ
ССВ		21:22								Ť	7	寸	T	寸	T	┪	Ť	x	T	7			Ť	寸	Ť		ſ
LAB MS		21:25						T	一	寸	7	寸	寸	Ť	寸	i	T	x	Ť	Ť	寸	T	寸	┪	1	i	ſ
LAB MSD		21:27				7		T	i	7	7	T	j	T	ij	寸	Ť	х	T	j	j	寸	ヿ	寸	Ħ		ľ
ZZZZZZ		21:29					7		ij	Ť	寸	┪	┪	寸	T	T	寸	1	T	Ť	T	寸	寸	T	T	7	
ZZZZZZ		21:32								Ť	1	Ť	T	Ť	Ť	Ť	T	寸	Ť	寸	ij	寸	寸	Ť	T	j	
ZZZZZZ		21:34						j	Ť	Ť	7	Ť	Ť	T	Ť	Ť	T	T	T	j	寸	寸	寸	T	j	Ť	
ZZZZZZ		21:36					寸	j	寸	寸	7	寸	T	Ť	Ť	j	Ť	寸	ij	┪	┪	寸	十	_	Ť	寸	•
ZZZZZZ		21:38	7.7.6		寸		寸	ij	T	T	寸	Ť	Ť	Ť	寸	Ť	Ť	寸	Ť	Ť	T	寸	Ť	寸	Ť	T	
IRL1710-01		21:41			\exists	7	\neg	Ť	寸	寸	7	Ť	Ť	Ť	寸	T	Ħ	x	Ť	Ť	┪	T	寸	Ť	7	7	•
ZZZZZZ		21:43		_	-	-	-	+	÷	÷	+	+	+	-	÷	÷	-		+	÷	t	t	\dashv	\dashv	+	Ħ	•

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

CCB

TOTAL Metals

ANALYSIS RUN LOG

Contract: TestA	merica Irvi	.ne						_																	
Lab Code:		Case	No.:				_	SA	s :	No.	:					i	SDG	No	o.:	Ī)8L	17	024	18	_
Instrument ID Numb	er: Cetac	M7500	Hg				_	Me	th	od:		C	:V												
Start Date: 12/	18/2008							En	d I)at	e:	:	12/	18	/20	800			_						
g1											-		A	nal	yte	s									
Sample ID.	D/F	Time	% R	A L	•	A S	B A		C D				C I	- 1			н G			S			T L		C N
ZZZZZZ	1.00	21:45																							
ccv	1.00	21:48											Т			T	Х								

1.00 21:50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Dissolved Metals

Lot ID: <u>D8L170248</u>

Client: <u>TestAmerica Irvine</u>

Method: <u>245.1</u>

Associated Samples: ___001

Batch: 8353517

DISSOLVED Metals COVER PAGE - INORGANIC ANALYSIS DATA PACKAGI

	COVER PAGE - INOR	GANIC ANA	LYSIS DATA PACKAGE	
Contract:	TestAmerica Irvine		SDG No.	: D8L170248
Lab Code:	Case No.:		SAS No.	:
SOW No.:			•	
	Sample ID.	La	b Sample No.	7
	IRL1710-01	DE	L170248-001	
Were ICP i	nterelement corrections applied?		Yes/No	YES
Were ICP b	ackground corrections applied?		Yes/No	YES
	es-were raw data generated before			
appi.	ication of background corrections?		Yes/No	NO NO
Comments:				
I certify t	that this data package is in compliand both technically and for completeness,	e with the	terms and conditions of the) .a
above. Rel	lease of the data contained in this ha	ardcopy dat	a package and in the compute	r-readable data
verified by	on floppy diskette has been authorized the following signature.	l by the La	boratory Manager or the Mana	ger's designee, as
	Time mine 1			
signature: _	Charding N	Name:	Yongming Ding	
Date:	Zyong ming D' 12/20/2008	Title:	Analyst V	1179



Dissolved Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID:

IRL1710-01

Lot/SDG Number:

D8L170248

Lab Sample ID:

D8L170248-001

Matrix:

WATER

Lab WorkOrder:

<u>K4V63</u>

% Moisture:

<u>N/A</u>

-4-/Ti--- Callasta

12/15/08 10:50

Basis:

Wet

Date/Time Collected: Date/Time Received:

<u>12/17/08 09:45</u>

Analysis Method:

245.1

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30 12/18/08 22:13

QC Batch ID: Sample Aliquot: 8353517 10 mL Date/Time Analyzed: Instrument ID:

023

Dilution Factor:

1

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 Irvin	e				
Lab Code:	Case	No.:	SAS No.:	sdg no.:	D8L170248	_
Initial Cal	libration Source:	Inorganic Ventu	ıres			_
Continuing	Calibration Source:	Ultra Scie	entific			
		Concentration Un	nits: ug/L			
	Initial	Calibration	Continuing C	alibration		1

Analyte	rue!	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	м
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

Mercury

True

Found

DISSOLVED Metals

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Cont	ract: TestA	merica Irvin	e							
Lab	Code:	Case	No.:		SAS No.:		SDG NO.:	D8L170248		
Init	ial Calibrati	on Source:	Inorganic	Venture	3					
Cont	inuing Calib	ration Source:	Ultra	Scient	lfic					
_			Concentrati	Lon Units	: ug/L					
		Initial	Calibration		Conti	nuing Calibr	ation			
ı	Analyte	True	Found	&D /1\			0 - (4) W	1 0-44	١١	

True

5.000

Found

%R(1)

5.145 102.9

Found

%R(1)

%R(1)

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

DISSOLVED Metals -2BCRDL STANDARD FOR AA AND ICP

Contract:	TestAmerica :	Irvine					
Lab Code:		Case No.:		SAS No.:	 SDG No.:	D8L170248	
AA CRDL St	andard Source:	Ultra	Scientific				

ICP CRDL Standard Source:

Concentration Units: ug/L

	CRDL Stand	dard for AA		In	CRDL Stand	ard for	ICP Final	
Analyte	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.16800	84.0				Ī	



Dissolved Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

D8L170248

WATER

Lab Sample ID: Lab WorkOrder:

Client Sample ID:

D8L180000-517B

% Moisture:

Matrix:

Wet

Analysis Method:

Lot/SDG Number:

<u>245.1</u>

Unit:

Basis:

ug/L

QC Batch ID:

8353517 <u>10 mL</u>

Sample Aliquot: **Dilution Factor:**

1

<u>K40QJ</u>

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:

<u>023</u>

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 Concen	tration Units (ug/L or mg/kg):	UG/L	

Analyte	Initial Calib. Blank		Continuing Calibration Blank (ug/L)						Preparation		
	(ug/L) C	С	1	C	2	С	3	С		С	м
Mercury	-0.03	30 B	0.02	7 ט	0.0	27 ט	0.02	ט 27	0.027	ן ט	CV



Dissolved Metals Analysis Data Sheet

Lab Name:

TESTAMERICA DENVER

Client Sample ID:

LAB MS/MSD

Lot/SDG Number:

D8L170248

MS Lab Sample ID:

D8L170200-001S

Matrix:

WATER

MS Lab WorkOrder:

K4VTJ

% Moisture:

12/15/08 10:58

Basis:

<u>N/A</u> Wet

Date/Time Collected: Date/Time Received:

12/17/08 09:45

Analysis Method:

<u>245.1</u>

Date Leached:

Unit:

ug/L

Date/Time Extracted:

12/18/08 16:30

QC Batch ID:

8353517

Date/Time Analyzed:

12/18/08 21:57

MS Sample Aliquot:

10 mL

Instrument ID:

023

ctor: <u>1</u>

Analyte Spike Amount		Sample Result	С	MS Result	С	% 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

Client Sample ID:

LAB MS/MSD

Lot/SDG Number:

D8L170248

MSD Lab Sample ID:

D8L170200-001D

Matrix:

WATER

MSD Lab WorkOrder:

K4VTJ

% Moisture:

<u>N/A</u>

Date/Time Collected:

12/15/08 10:58

Basis:

Wet

Date/Time Received:

12/17/08 09:45

Analysis Method:

245.1

Date Leached:

Unit: QC Batch ID:

ug/L

Date/Time Extracted: Date/Time Analyzed:

12/18/08 16:30

MSD Sample Aliquot:

8353517 <u>10 mL</u>

Instrument ID:

12/18/08 21:59 023

MSD Dilution Factor:

1

Analyte	Spike	Sample	C	MSD	C	0/ Dag	0	DDD		QC Lin	nits
Analyte	Amount	Result		Result		% Rec	Ų	RPD	Q	% 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

Client Sample ID:

Lot/SDG Number:

D8L170248

Lab Sample ID:

D8L180000-517C

Matrix:

WATER

Lab WorkOrder:

<u>K40QJ</u>

% Moisture:

<u>N/A</u>

Date/Time Collected:

Basis:

Wet

Date/Time Received:

Analysis Method:

<u>245.1</u>

Date Leached:

12/18/08 16:30

Unit: QC Batch ID: ug/L

Date/Time Extracted:
Date/Time Analyzed:

12/18/08 16:30 12/18/08 21:52

Sample Aliquot:

8353517 10 mL

Instrument ID:

023

Dilution Factor:

1

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

-10-

DETECTION LIMITS

Contract: <u>TestAmeric</u>	a Irvine			
Lab Code:	Case No.:	SAS No.:	SDG NO.: D8	L170248
ICP ID Number:		Date: 1/23/2008		
Flame AA ID Number:	Cetac M7500 Hg	77 C. C. C. C. C. C. C. C. C. C. C. C. C.		
Furnace AA ID Number:				

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

Comments:

-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:

-14-

ANALYSIS RUN LOG

Contract:	TestAmerica	Irvine	TO THE STREET			
Lab Code:		Case No.:	SAS No.:		EDG No.:	D8L170248
Instrument 1	ID Number:	Cetac M7500 Hg	Method:	CV		
Start Date:	12/18/200	8	End Date:	12/18/2008		

Sample	D/F	Time	% R	_				,	,					Ana	_					_						.	
ID.		- 12010		A L	S B	A S	B A		C D		C R	C	C		P B	MG	M	HG	I	K	S	A G	N A	T	V	z N	C N
Cal Blank	1.00	20:29																X									
Std1	1.00	20:32							Г									х									
Std2	1.00	20:34																x									
Std3	1.00	20:36																х									Г
Std4	1.00	20:38																X									
Std5	1.00	20:41																X									
Std6	1.00	20:43																х									
ICB	1.00	20:46																Х				Т					
ICV	1.00	20:48																х									Γ
RL	1.00	20:50																X									
ccv	1.00	21:20																х								Γ	
ССВ	1.00	21:22																х									
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												Ì	j			х									
CCV	1.00	21:48												j	Ì		j	х	Ì								
CCB	1.00	21:50															Ť	х	Ì								
Check Sample	1.00	21:52													Ì			х	Ť								
INTRA-LAB QC	,	21:55										j	j	j	T	T	T	х	j								
LAB MS	1.00	21:57										j	j	j	j	j	j	х	j								
LAB MSD	1.00	21:59											Ì	Ì	Í	Ì	Ì	х	Ī								
ZZZZZZ	1.00	22:02										T	T	j	j	Ì	j		٦								
ZZZZZZ	1.00	22:04										j	T	j	Ī		j	Ì	Ť		Ì						
ZZZZZZ	1.00	22:06										T	T	T	T	Ť	Ť	T	Ť		j						
ZZZZZZ	1.00	22:09										T	j	一	T	İ	Ť	j	T					j			
ZZZZZZ	1.00	22:11				T						T	j	Ì			Ť	j	Ī				j	,,			

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

-14-

ANALYSIS RUN LOG

Contract: TestAr	merica Irvi	ne			 		_																			
Lab Code:	_	Case	No.:			_	SA	s:	No.	:					_	s	DG	No).:	Ī)8L	<u>.17</u>	02	48		
Instrument ID Number	er: Cetac	M7500	Hg				Me	th	od:		(ZV		_												
Start Date: 12/1	8/2008					_	En	d I	Dat	e:		12	/1	8/2	200	8			_							
		1.								-			Ana	1y	tes	3										
Sample ID.	D/F	Time	% R	A	A S		B E	C D	1 1	C R			F E				H G			S E		N A			1	C N
IRL1710-01	1.00	22:13															x			П	Г	厂	厂	一	十	
ccv	1.00	22:15															х									
CCB	1.00	22:18															х					П		П	П	

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts



Lot ID: D8L170248	
Client: TA-Irvine - (Bocing)	
Batch(es)#: 6353495 + 8353517	
Associated Samples:	

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

Signature/Date: Chistophin Tislale 12/19/08

Metals Raw Data RoadMap

LotID		Metal	WorkOrder		e TestDesc	Batch	File Id	Instr
D8L170248	1	HG	K4V631AC	20081218	M2451DS	8353517	081218AB	023
D8L170248	1	HG	K4V631AA	20081218	M2451_L	8353495	081218AB	023

43

METALS PREPARATION LOGS CVAA



THE LEADER IN ENVIRONMENTAL TESTING

SUPPLEMENTAL METALS PREP SHEET

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

Hg PREP & ANALYSIS - WATERS

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



TestAmerica Denver

Prep Date: 12/18/08	Prep By: CGG		Analysis	Date: 12/18/08	Analyst: CG(}
Balance ID:	<u> </u>			ometer ID: MT 4025	randiyot. odi	
	Start Time	Tanan			Tom	n °C
Digestion Cycles		Temp		End Time		ıp ℃
	16:30	94	puncuing	18:30)4
Purple color persists or	r black ppt present:	X Yes		No If "No", ex	plain in Comm	ents below.
Digestion Tube Lo	ot #:					
For dissolved mercury	only, were samples fill	tered in the l	ab?	Yes	$\mathbf{\Sigma}$	No
One or more samples	were filtered prior to a	nalysis at the	instrum	ent. 🔯 Yes	s	No
If "yes", then the metho	od blank and the LCS	were also filt	ered in th	ne same manner using tl	ne same type o	of filter.
				Analyst(s) Initials		
Reagents Used						
Reagent	Manufacturer	Lot	#	Standards Log #	Vol	(mL)
HNO ₃	JT Baker	G250				25
H₂SO₄	Fisher	E49F				.5
HCI	JT Baker	G360	24		used by i	nstrument
10% SnCl ₂	Fisher	G206	37	STD-7206-08	added by	instrument
NaCl / NH₂OH	Fisher	G286	17	STD-7208-08		.6
_	Fisher	G064	76	310-7200-00		.0
KMnO₄	Fisher	E858	35	STD-7207-08	1	.5
$K_2S_2O_8$	Fisher	0836	61	STD-6691-08	0	.8
Parent Calibration St	ock Standards					
	Lot #			Verification #		Date
Second Source	A2-HG020	56		STD-2364-08		1/09
Primary Calibration	H00091			STD-1683-08		1/09
Standards Preparation				Final digestat		mls
Standards	Final Conc	Parent St		Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary			1.00	7
Daily Cal Working	100 ug/L	Cal Wo			1.00	7
ICAL 0.2	0.2 ug/L	Daily Cal V			0.2	7
ICAL 0.5	0.5 ug/L	Daily Cal V			0.5	<u> </u>
ICAL 1	1.0 ug/L	Daily Cal V		See	1.0	7
ICAL 2	2.0 ug/L	Daily Cal V		Attached	2.0	7
ICAL 5 ICAL 10	5.0 ug/L	Daily Cal V		Standards Log	5.0	24
CCV	10 ug/L	Daily Cal V Daily Cal V		Printouts	10.0	24 7
ICV Intermed	5 ug/L 700 ug/L	ICV St			5.0 0.70	7
ICV Daily Working	7.0 ug/L	ICV St			1.00	7
LCS	5 ug/L	Daily Cal V			0.5	. 7
MS/MSD	5 ug/L	Daily Cal V			0.5	7
RL	0.2 ug/L	Daily Cal V			0.2	
Second Source ICV II		<u> </u>		Standards Log #		
* *				attached Standards Preparation		
			itea in the i	attached Standards Preparation	on Logbook Recon	u.
Comments 245.						
I certify that all inform			piete.		110/00	1196
Signature:	3 Ardalo			Date: (と	19108	
REVIEWED BY:		12/2		Date: 12/19/	তি	

Batch Number: 8353495

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

4

Prep Date:	12/18/08	(4)
Due Date:	12/19/08	

Lot	Work Order		Due Date: 12/19/08	Initial Weight/Volume
D8L180000 Water	K40NQ	В	Due Date: SDG:	10 mL
D8L180000 Water	K40NQ	_C .Z	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 1 9	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	4	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	16	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)



Hg PREP & ANALYSIS - WATERS

SOP: DEN-MT-0015 QC Batch #:

8353517

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Prep Date: 12/18/08	Prep By: CGG		Analysis Date: 12/18/08		Analyst: CGG	
Balance ID:				ometer ID: MT 4025		
Digestion Cycles	Start Time	Temp °C		End Time	Temp °C	
2.geee	16:30	94		18:30)4
Down to set on a set of						
Purple color persists or black ppt present: X Yes No If "No", explain				iain in Comm	ents below.	
Digestion Tube Lo						
For dissolved mercury	•			Yes	Z	No
One or more samples v	were filtered prior to ar	nalysis at the	instrume	ent.	X	No
If "yes", then the metho	od blank and the LCS v	were also filt	ered in th	ne same manner using the	e same type o	of filter.
				Analyst(s) Initials:		
Reagents Used						
Reagent	Manufacturer	Lot	#	Standards Log #	Vol	(mL)
HNO ₃	JT Baker	G250				25
H ₂ SO ₄	Fisher	E49F		No. Complete States	0.23	
HCI	JT Baker	G36024			used by instrument	
10% SnCl ₂	Fisher	G20637		STD-7206-08	added by	instrument
NaCl / NH ₂ OH	Fisher	G286	17	CTD 7000 00		6
_	Fisher	G064	76	STD-7208-08	0.6	
KMnO₄	Fisher	E8585		STD-7207-08	1.5	
$K_2S_2O_8$	Fisher	083661		STD-6691-08 0.8		.8
Parent Calibration Sto						
	Lot #			Verification #	Exp.	Date
Second Source	A2-HG0205	56				1/09
Primary Calibration	H00091			STD-1683-08		1/09
Standards Preparatio				Final digestate	volume = 10	mls
Standards	Final Conc	Parent Sta	andard	Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary Cal			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		See	1.0	7
ICAL 2 ICAL 5	2.0 ug/L	Daily Cal Working		Attached	2.0	7
ICAL 10	5.0 ug/L	Daily Cal Working		Standards Log	5.0	24
CCV	10 ug/L	Daily Cal Working		Printouts	10.0	24 7
ICV Intermed	5 ug/L 700 ug/L	Daily Cal Working ICV Stock			5.0 0.70	7
ICV Daily Working	7.0 ug/L	ICV Stock			1.00	7
LCS	7:0 dg/L 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 Z 45.1		- Boe			<u> </u>	
Logitify that all information above is correct and complete						

Date:

Batch Number: 8353517

TestAmerica Laboratories, Inc.

Metals Prep Log/ Batch Summary

Prepared By

Prep Date:

12/18/08

Lot	Work Order		Due Date:	12/19/08	Initial Weight/Volume
D8L180000 Water	K40QJ	В (Due Date: SDG:		<u>10 mL</u>
D8L180000 Water	K40QJ	C	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	4	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	1	Due Date: 12/19/08 SDG:		<u>10 mL</u>
D8L170253 Water	K4V7T Dissolved	(0	Due Date: 12/19/08 SDG:		10 mL

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

Comments:

METALS SAMPLE DATA CVAA



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