

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis  
13715 Rider Trail North  
Earth City, MO 63045  
Tel: (314)298-8566

TestAmerica Job ID: 160-14716-1

TestAmerica Sample Delivery Group: SL1993  
Client Project/Site: F15-056

For:

CH2M Hill Plateau Remediation Company  
PO BOX 1600, MS H8-41  
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald



Authorized for release by:  
12/8/2015 10:59:29 AM

Jayna Awalt, Project Manager II  
(314)298-8566

[jayna.awalt@testamericainc.com](mailto:jayna.awalt@testamericainc.com)



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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

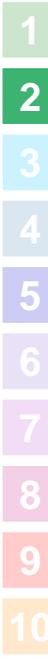
*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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December 08, 2015

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
SDG: SL1993



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Client: CH2M Hill Plateau Remediation Company  
Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
SDG: SL1993

**Job ID: 160-14716-1**

**Laboratory: TestAmerica St. Louis**

#### Narrative

### CASE NARRATIVE

CH2MHill Plateau Remediation Company  
P.O. Box 1600  
Richland, Washington 99352  
December 8, 2015  
Attention: Scot Fitzgerald

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SDG	: SL1993
Number of Samples	: 1 sample
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: November 7, 2015

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#### II. Introduction

On November 7, 1 sample was received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F15-056

#### III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate flagging unless otherwise noted in the case narrative.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a "D" flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction (June 2014), Boron will be reported for Metals using method 6010. Boron will no longer be reported by method 6020.

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

Per CHPRC direction, data for pH analysis will be reported outside 1x 24 hour hold time due to this being a field parameter.

#### IV. Definitions

**Job ID: 160-14716-1 (Continued)****Laboratory: TestAmerica St. Louis (Continued)**

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For Metals analyses, per standard practice, all solid samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate qualification unless otherwise noted in the case narrative.
- **N** - For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **O** - For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **M** - For inorganic analyses, the precision was outside control limits.
- **P** - For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.

**ICP Metals****Batch: 225647**

Sodium was detected in method blank MB 160-224727/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "B". If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged "C".

There were no observations or non-conformances associated with the following methods:

**Alkalinity**

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt  
St. Louis Project Manager

### Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-14716-1

SDG Number: SL1993

**Login Number: 14716**

**List Number: 1**

**Creator: Clarke, Jill C**

**List Source: TestAmerica St. Louis**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5°
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**CH2M Hill Plateau Remediation Company** SL1993 **CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST** **F15-056-001** **PAGE 1 OF 1**

**COLLECTOR** S.W. King/CHPRC **COMPANY CONTACT** WHITLEY, KM **TELEPHONE NO.** 373-4929 **PROJECT COORDINATOR** WHITLEY, KM

**SAMPLING LOCATION** SKID 1 INJECTION RIVER WATER **PROJECT DESIGNATION** 300-FF-5 Enhanced Attenuation - Stage A Phosphate Solution Injection - w

**ICE CHEST NO.** 605-343 **FIELD LOGBOOK NO.** HNF-N-506-81/19 **ACTUAL SAMPLE DEPTH** **SAF NO.** F15-056 **AIR QUALITY**  **7H** **PRICE CODE** **DATA TURNAROUND** 30 Days / 30 Days

**SHIPPED TO** TestAmerica St. Louis **OFFSITE PROPERTY NO.** N/A **COA** 300205 **METHOD OF SHIPMENT** FEDERAL EXPRESS **ORIGINAL**

**BILL OF LADING/AIR BILL NO.** 774923696731

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HNO3 to pH	Cool <=6C
A=Air	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	HOLDING TIME	6 Months	14 Days
DL=Drum		TYPE OF CONTAINER	G/P	G/P
Liquids		NO. OF CONTAINER(S)	1	1
DS=Drum		VOLUME	500mL	500mL
Solids		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS
L=Liquid		SAMPLE DATE	NOV 06 2015	NOV 06 2015
O=Oil		SAMPLE TIME	0841	✓
S=Soil				✓
SE=Sediment				
T=Tissue				
V=Vegetation				
W=Water				
WI=Wipe				
X=Other				

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**CHAIN OF POSSESSION**

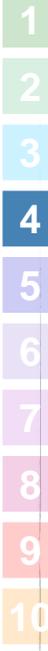
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
S.W. King/CHPRC	NOV 06 2015 1000	L.D. Wall	NOV 06 2015 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	Jill Clark J. Clark	11-7-15 0835
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**SPECIAL INSTRUCTIONS**  
 \*\* Offsite lab analyses will be a blend of river water and phosphate injection solution. TRVL-15-155  
 (1) 6010\_METALS\_ICP: COMMON {Calcium, Magnesium, Potassium, Sodium}; ~~6020\_METALS\_ICPMS-COMMON (Add-on) - (Uranium)}~~; 11/2/15  
 (2) 310.1\_ALKALINITY: COMMON (Add-on) {Bi-carbonate alkalinity, Carbonate alkalinity};

**LABORATORY RECEIVED BY** **TITLE** **DATE/TIME**

**FINAL SAMPLE DISPOSITION** **DISPOSAL METHOD** **DATE/TIME**

**PRINTED ON** 9/2/2015 **FSR ID = FSR4936** **TRVL NUM = TRVL-15-155** **A-6003-618 (REV 2)**



December 08, 2015

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### FedEx® Tracking

774923696731

Ship date:

Fri 11/06/2015

Actual delivery:

Sat 11/07/2015 8:28 am

RICHLAND, WA US

**Delivered**

Signed for by: C. CLARK

EARTH CITY, MO US

#### Travel History

Date/Time	Activity	Location
<b>11/07/2015 - Saturday</b>		
8:28 am	Delivered	EARTH CITY, MO
8:00 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:34 am	At local FedEx facility	EARTH CITY, MO
5:30 am	At destination sort facility	BERKELEY, MO
4:44 am	Departed FedEx location	MEMPHIS, TN
12:33 am	Arrived at FedEx location	MEMPHIS, TN
<b>11/06/2015 - Friday</b>		
5:01 pm	Left FedEx origin facility	PASCO, WA
3:41 pm	Shipment information sent to FedEx	
3:23 pm	Picked up	PASCO, WA

#### Shipment Facts

<b>Tracking number</b>	774923696731	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	83 lbs / 37.65 kgs	<b>Delivered To</b>	Shipping/Receiving
<b>Total pieces</b>	1	<b>Total shipment weight</b>	83 lbs / 37.65 kgs
<b>Shipper reference</b>	gws-343	<b>Packaging</b>	Your Packaging
<b>Special handling section</b>	For Saturday Delivery		



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## Qualifiers

### Metals

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

### General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
SDG: SL1993

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



December 08, 2015

# Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
SDG: SL1993

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-14716-1	B32JM7	Water	11/06/15 08:41	11/07/15 08:35

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Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
 SDG: SL1993

**Method: 6010C - Metals (ICP)**

Client Sample ID: B32JM7  
 Date Collected: 11/06/15 08:41  
 Date Received: 11/07/15 08:35

Lab Sample ID: 160-14716-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	22100		1000	54.2	ug/L		11/30/15 15:46	12/04/15 12:53	1
Magnesium	4730		1000	50.5	ug/L		11/30/15 15:46	12/04/15 12:53	1
Potassium	2530	B	5000	456	ug/L		11/30/15 15:46	12/04/15 12:53	1
Sodium	3160		1000	105	ug/L		11/30/15 15:46	12/04/15 12:53	1

**General Chemistry**

Client Sample ID: B32JM7  
 Date Collected: 11/06/15 08:41  
 Date Received: 11/07/15 08:35

Lab Sample ID: 160-14716-1  
 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	58.0		5.0	0.54	mg/L			11/11/15 07:28	1
Carbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			11/11/15 07:28	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-224727/1-A  
Matrix: Water  
Analysis Batch: 225647

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 224727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	54.2	U	1000	54.2	ug/L		11/30/15 15:44	12/04/15 11:36	1
Magnesium	50.5	U	1000	50.5	ug/L		11/30/15 15:44	12/04/15 11:36	1
Potassium	456	U	5000	456	ug/L		11/30/15 15:44	12/04/15 11:36	1
Sodium	450.3	B	1000	105	ug/L		11/30/15 15:44	12/04/15 11:36	1

Lab Sample ID: LCS 160-224727/2-A  
Matrix: Water  
Analysis Batch: 225647

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 224727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10980		ug/L		110	80 - 120
Magnesium	10000	9876		ug/L		99	80 - 120
Potassium	10000	10020		ug/L		100	80 - 120
Sodium	10000	10150		ug/L		102	80 - 120

Lab Sample ID: 160-14698-B-4-E MS  
Matrix: Water  
Analysis Batch: 225647

Client Sample ID: Matrix Spike  
Prep Type: Dissolved  
Prep Batch: 224727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	64000		10000	72260		ug/L		83	75 - 125
Magnesium	8020		10000	17570		ug/L		95	75 - 125
Potassium	3740	B	10000	14180		ug/L		104	75 - 125
Sodium	23400		10000	34740		ug/L		114	75 - 125

Lab Sample ID: 160-14698-B-4-F MSD  
Matrix: Water  
Analysis Batch: 225647

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Dissolved  
Prep Batch: 224727

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	64000		10000	73160		ug/L		92	75 - 125	1	20
Magnesium	8020		10000	18040		ug/L		100	75 - 125	3	20
Potassium	3740	B	10000	14030		ug/L		103	75 - 125	1	20
Sodium	23400		10000	33780		ug/L		104	75 - 125	3	20

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-221275/1  
Matrix: Water  
Analysis Batch: 221275

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			11/11/15 07:28	1
Carbonate Alkalinity as CaCO3	0.54	U	5.0	0.54	mg/L			11/11/15 07:28	1

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: HLCS 160-221275/3  
Matrix: Water  
Analysis Batch: 221275

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bicarbonate Alkalinity as CaCO3	400	372.0		mg/L		93	90 - 110

Lab Sample ID: LCS 160-221275/2  
Matrix: Water  
Analysis Batch: 221275

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bicarbonate Alkalinity as CaCO3	200	188.0		mg/L		94	90 - 110

Lab Sample ID: 160-14714-A-2 MS  
Matrix: Water  
Analysis Batch: 221275

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bicarbonate Alkalinity as CaCO3	124		100	216.0		mg/L		92	80 - 120

Lab Sample ID: 160-14714-A-2 DU  
Matrix: Water  
Analysis Batch: 221275

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Bicarbonate Alkalinity as CaCO3	124		124.0		mg/L		0	20
Carbonate Alkalinity as CaCO3	0.54	U	0.54	U	mg/L		NC	20

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F15-056

TestAmerica Job ID: 160-14716-1  
 SDG: SL1993

## Metals

### Prep Batch: 224727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-14698-B-4-E MS	Matrix Spike	Dissolved	Water	3010A	
160-14698-B-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	
160-14716-1	B32JM7	Total/NA	Water	3010A	
LCS 160-224727/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-224727/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 225647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-14698-B-4-E MS	Matrix Spike	Dissolved	Water	6010C	224727
160-14698-B-4-F MSD	Matrix Spike Duplicate	Dissolved	Water	6010C	224727
160-14716-1	B32JM7	Total/NA	Water	6010C	224727
LCS 160-224727/2-A	Lab Control Sample	Total/NA	Water	6010C	224727
MB 160-224727/1-A	Method Blank	Total/NA	Water	6010C	224727

## General Chemistry

### Analysis Batch: 221275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-14714-A-2 DU	Duplicate	Total/NA	Water	310.1	
160-14714-A-2 MS	Matrix Spike	Total/NA	Water	310.1	
160-14716-1	B32JM7	Total/NA	Water	310.1	
HLCS 160-221275/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-221275/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-221275/1	Method Blank	Total/NA	Water	310.1	