

8/15/2016

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Richland  
2800 George Washington Way  
Richland, WA 99352  
Tel: (509)375-3131

TestAmerica Job ID: 300-3621-1  
TestAmerica Sample Delivery Group: WC1322  
Client Project/Site: F16-020

For:  
CH2M Hill Plateau Remediation Company  
PO BOX 1600  
Mail Stop R3-50  
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:  
8/15/2016 3:06:31 PM  
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*I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.*

*The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are less than five times the MDL.*



### LINKS

Review your project results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Chain of Custody . . . . .	5
Detection Summary . . . . .	8
Client Sample Results . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	11
Lab Chronicle . . . . .	12
Method Summary . . . . .	14
Sample Summary . . . . .	15
Receipt Checklists . . . . .	16

## Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
D	The reported value is from a dilution.
B	Estimated result. Result is less than the RL, but greater than MDL

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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)

# Case Narrative

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

**Job ID: 300-3621-1**

**Laboratory: TestAmerica Richland**

## Narrative

**Job Narrative**  
**300-3621-1**

### Comments

This job is associated to SDG W07567 for rad analysis.

### Receipt

The samples were received on 7/28/2016 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.8° C.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



COLLECTOR <b>Antonio D James</b>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	FIG-020-1225	PAGE 1 OF 1
SAMPLING LOCATION C9488, Optional 3, B355N3	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. NA	SAF NO. F16-020	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
ICE CHEST NO. NA	FIELD LOGBOOK NO. NA	ACTUAL SAMPLE DEPTH 209.8 - 211.8	COA 302632	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA	BILL OF LADING/AIR BILL NO. NA	COMPANY JE 7/27/16		

MATRIX*	SPECIAL HANDLING AND/OR STORAGE	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE DATE	SAMPLE TIME	7196 CRG: COMMON; IN SPECIAL INSTRUCTIONS	Cool <=6C	None	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B36849	SOIL				1	60ml	7/27/16	0930				X

#3621  
WC1322  
Due: 08/27/16



300-3621 COC

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Antonio D James</i>	RECEIVED BY/STORED IN <i>J. Bock</i>	<p>(1) GAMMA_GS: COMMON; AMCMISO IE PRECIP AEA: COMMON                      {Americium-241}; PUIISO_IE_PRECIP_AEA: COMMON {Plutonium-238,                      Plutonium-239/240}; UIISO_IE_PRECIP_AEA: COMMON {Uranium-                      233/234, Uranium-235, Uranium-238}; C14_LSC: COMMON;                      I129_SEP_LEPS_GS: COMMON; NI63_LSC: COMMON;                      NP237_IE_PRECIP_AEA: COMMON {Neptunium-237};                      SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium};                      TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;</p>
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F16-020-1263

PAGE 1 OF 1

COLLECTOR  
**Antonio James**

COMPANY CONTACT  
TODAK, D

TELEPHONE NO.  
376-6427

PROJECT COORDINATOR  
TODAK, D

PRICE CODE  
8H

DATA TURNAROUND  
30 Days / 30 Days

SAMPLING LOCATION  
C9492, Core 2, B35VX2

PROJECT DESIGNATION  
200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling

FIELD LOGBOOK NO.  
N/A

SAF NO.  
F16-020

AIR QUALITY

METHOD OF SHIPMENT  
ORIGINAL

ICE CHEST NO.  
N/A

OFFSITE PROPERTY NO.  
N/A

ACTUAL SAMPLE DEPTH  
53.4-55.4

COA  
302632

METHOD OF SHIPMENT  
COMPANY VEHICLE

DATE  
7/28/16

SHIPPED TO  
TestAmerica Incorporated, Richland

BILL OF LADING/AIR BILL NO.  
N/A

DATE  
7/28/16

MATRIX\*  
A=Air  
DL=Drum  
Liquids  
DS=Drum  
Solids  
L=Liquid  
O=Oil  
S=Soil  
SE=Sediment  
T=Tissue  
V=Vegetation  
W=Water  
WI=Wipe  
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS  
\*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JMTA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME
Cool <=6C	30 Days	G/P	1	60ml
None	6 Months	G/P	1	500ml

SPECIAL HANDLING AND/OR STORAGE  
N/A

#3621  
WC1322  
DUE: 08/27/16

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B36HND	SOIL	7/28/16	1045	X	X

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Antonio James	7/28/16 1600	J. Bock, TARI	7/28/16 1600
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

NA  
(1) GAMMA\_GS: COMMON; AMCMISO\_IE\_PRECIP\_AEA: COMMON  
{Americium-241}; PUISO\_IE\_PRECIP\_AEA: COMMON {Plutonium-238,  
Plutonium-239/240}; UISO\_PLATE\_AEA: COMMON {Uranium-233/234,  
Uranium-235, Uranium-238}; C14\_LSC: COMMON;  
I129\_SEP\_LEPS\_GS: COMMON; NI63\_LSC: COMMON;  
NP237\_IE\_PRECIP\_AEA: COMMON {Neptunium-237};  
SRTOT\_SEP\_PRECIP\_GPC: COMMON {Total beta radiostrontium};  
TC99\_ETVDSK\_LSC: COMMON; TRITIUM\_DIST\_LSC: COMMON;

LABORATORY SECTION

RECEIVED BY

DISPOSAL METHOD

TITLE

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

COLLECTOR <b>Antonio James</b>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9492, Core 4, B35VX6	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. NA	SAF NO. FI6-020	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. N/A	FIELD LOGBOOK NO. NA	ACTUAL SAMPLE DEPTH 45.2-47.2	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A	COMPANY JE	DATE 7/28/16	

# 3621  
WGC1322  
DUE: 08/27/16

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <=6C	None
		HOLDING TIME	30 Days	6 Months
		TYPE OF CONTAINER	G/P	G/P
		NO. OF CONTAINER(S)	1	1
		VOLUME	60ml	500ml
SPECIAL HANDLING AND/OR STORAGE N/A		SAMPLE ANALYSIS	7196, CR6, COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SAMPLE NO. B36HN2	MATRIX* SOIL	SAMPLE DATE 7/28/16	SAMPLE TIME 1130	X X

CHAIN OF POSSESSION	SIGN / PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Antonio James</i>	DATE/TIME 7/28/16 11:00	DATE/TIME 9.29.16 11:00
RECEIVED BY/STORED IN <i>Bob</i>	DATE/TIME 7/28/16	DATE/TIME 7/28/16
RELINQUISHED BY/REMOVED FROM	DATE/TIME	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	DATE/TIME
RECEIVED BY/STORED IN	DATE/TIME	DATE/TIME

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Detection Summary

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
 SDG: WC1322

Client Sample ID: B36849

Lab Sample ID: 300-3621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.26	B	2.0	0.15	mg/Kg	1		7196A	Total/NA

Client Sample ID: B36HN0

Lab Sample ID: 300-3621-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.29	B	2.0	0.15	mg/Kg	1		7196A	Total/NA

Client Sample ID: B36HN2

Lab Sample ID: 300-3621-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Richland



Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
 SDG: WC1322

Client Sample ID: B36849

Lab Sample ID: 300-3621-1

Date Collected: 07/27/16 09:30

Matrix: Soil

Date Received: 07/28/16 16:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.26	B	2.0	0.15	mg/Kg		08/09/16 08:47	08/09/16 15:24	1

Client Sample ID: B36HN0

Lab Sample ID: 300-3621-2

Date Collected: 07/28/16 10:45

Matrix: Soil

Date Received: 07/28/16 16:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.29	B	2.0	0.15	mg/Kg		08/09/16 08:47	08/09/16 15:25	1

Client Sample ID: B36HN2

Lab Sample ID: 300-3621-3

Date Collected: 07/28/16 11:30

Matrix: Soil

Date Received: 07/28/16 16:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		08/09/16 08:47	08/09/16 15:27	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
 SDG: WC1322

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-5194/1-A  
 Matrix: Solid  
 Analysis Batch: 5300

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 5194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		08/09/16 08:47	08/09/16 15:08	1

Lab Sample ID: LCS 300-5194/2-A  
 Matrix: Solid  
 Analysis Batch: 5300

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 5194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	20.0	19.11		mg/Kg		96	85 - 115

Lab Sample ID: 300-3589-A-1-B MS  
 Matrix: Solid  
 Analysis Batch: 5300

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	30.0	27.21		mg/Kg		91	75 - 125

Lab Sample ID: 300-3589-A-1-D MSI  
 Matrix: Solid  
 Analysis Batch: 5300

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	675	690.8	D	mg/Kg		102	75 - 125

Lab Sample ID: 300-3589-A-1-C DU  
 Matrix: Solid  
 Analysis Batch: 5300

Client Sample ID: Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 5194

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.15	U	0.15	U	mg/Kg		NC	35

## QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

### General Chemistry

#### Prep Batch: 5194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3621-1	B36849	Total/NA	Soil	3060A	
300-3621-2	B36HN0	Total/NA	Soil	3060A	
300-3621-3	B36HN2	Total/NA	Soil	3060A	
MB 300-5194/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 300-5194/2-A	Lab Control Sample	Total/NA	Solid	3060A	
300-3589-A-1-B MS	Matrix Spike	Total/NA	Solid	3060A	
300-3589-A-1-D MSI	Matrix Spike	Total/NA	Solid	3060A	
300-3589-A-1-C DU	Duplicate	Total/NA	Solid	3060A	

#### Analysis Batch: 5300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3621-1	B36849	Total/NA	Soil	7196A	5194
300-3621-2	B36HN0	Total/NA	Soil	7196A	5194
300-3621-3	B36HN2	Total/NA	Soil	7196A	5194
MB 300-5194/1-A	Method Blank	Total/NA	Solid	7196A	5194
LCS 300-5194/2-A	Lab Control Sample	Total/NA	Solid	7196A	5194
300-3589-A-1-B MS	Matrix Spike	Total/NA	Solid	7196A	5194
300-3589-A-1-D MSI	Matrix Spike	Total/NA	Solid	7196A	5194
300-3589-A-1-C DU	Duplicate	Total/NA	Solid	7196A	5194

## Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

**Client Sample ID: B36849**

Date Collected: 07/27/16 09:30

Date Received: 07/28/16 16:00

**Lab Sample ID: 300-3621-1**

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.507 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:24	RLC	TAL RCH

**Client Sample ID: B36HN0**

Date Collected: 07/28/16 10:45

Date Received: 07/28/16 16:00

**Lab Sample ID: 300-3621-2**

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.509 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:25	RLC	TAL RCH

**Client Sample ID: B36HN2**

Date Collected: 07/28/16 11:30

Date Received: 07/28/16 16:00

**Lab Sample ID: 300-3621-3**

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5068 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:27	RLC	TAL RCH

**Client Sample ID: Method Blank**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: MB 300-5194/1-A**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:08	RLC	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-5194/2-A**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:10	RLC	TAL RCH

**Client Sample ID: Matrix Spike**

Date Collected: 07/26/16 14:00

Date Received: 07/26/16 15:40

**Lab Sample ID: 300-3589-A-1-B MS**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.503 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:12	RLC	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
 SDG: WC1322

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3589-A-1-D MSI

Date Collected: 07/26/16 14:00

Matrix: Solid

Date Received: 07/26/16 15:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.503 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		20			5300	08/09/16 15:15	RLC	TAL RCH

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

### Method Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

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Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL RCH

---

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131



### Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3621-1  
SDG: WC1322

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3621-1	B36849	Soil	07/27/16 09:30	07/28/16 16:00
300-3621-2	B36HN0	Soil	07/28/16 10:45	07/28/16 16:00
300-3621-3	B36HN2	Soil	07/28/16 11:30	07/28/16 16:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

## Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3621-1

SDG Number: WC1322

Login Number: 3621

List Number: 1

Creator: Anderson, Lori F

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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	
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 (excluding tests with immediate HTs)	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	