

June 23, 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: 300-3189-1  
TestAmerica Sample Delivery Group: WC1126  
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:  
6/23/2016 2:36:25 PM  
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Designee for  
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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)

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## Definitions/Glossary

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

TestAmerica Job ID: 300-3189-1  
 SDG: WC1126

### Qualifiers

#### General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
D	The reported value is from a dilution.

### 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)

### Case Narrative

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

**Job ID: 300-3189-1**

**Laboratory: TestAmerica Richland**

**Narrative**

**Job Narrative  
300-3189-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/1/2016 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

**General Chemistry**

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

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CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-729	PAGE 1 OF 1
COLLECTOR <i>Antonio Jaimés</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C8706, Core 30, B324T6	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	ACTUAL SAMPLE DEPTH 183.3 - 185.3 ft	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A	METHOD OF SHIPMENT GOVERNMENT/VEHICLE	<b>ORIGINAL</b>	
SHIPPED TO TestAmerica Incorporated, Richland					

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment I=Tissue V=Vegetation W=Water WI=Wipe X=Other	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/DATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	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
		SAMPLE ANALYSIS	7196 GRG: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SAMPLE NO. B35N99	MATRIX* SOIL	SAMPLE DATE 6-01-16	SAMPLE TIME 1130	INITIALS AJ

300-3189 COC



CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>An tonio Jaimés</i>	DATE/TIME <i>6-01-16/1545</i>	RECEIVED BY/STORED IN <i>Boads. Bob TALE 6-01-16/1545</i>	DATE/TIME <i>6-01-16/1545</i>	Sample From HEIS #: <i>B324T6</i> Actual Aliquot Collection Depth: <i>183.3-185.3 ft</i> ** (1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON; PUSO_PLATE_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_LLE_PLATE_AEA: COMMON; SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;	
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		

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

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F16-020-731

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**  
C8706, Optional Core 2, B324T9

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

**FIELD LOGBOOK NO.**  
NA

**SAF NO.**  
F16-020

**AIR QUALITY**

**METHOD OF SHIPMENT**  
GOVERNMENT VEHICLE  
**ORIGINAL**

**ICE CHEST NO.**  
NA

**FIELD LOGBOOK NO.**  
NA

**ACTUAL SAMPLE DEPTH**  
198.3 - 201.3 ft

**COA**  
302914

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

**SHIPMENT**  
JR 6/1/14

**SHIPPED TO**  
TestAmerica Incorporated, Richland

**OFFSITE PROPERTY NO.**  
NA

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

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

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

**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

**SAMPLE ANALYSIS**  
7195, GR6: COMMON;  
SEE ITEM (1) IN SPECIAL INSTRUCTIONS

**SPECIAL HANDLING AND/OR STORAGE**

**SAMPLE NO.**  
B35NB1

**SAMPLE DATE**  
6/1/14

**SAMPLE TIME**  
1310

**DATE/TIME**  
X

**DATE/TIME**  
X

**SPECIAL INSTRUCTIONS**  
Sample From HEIS #: B324T9 Actual Aliquot Collection  
Depth: 198.3 - 201.3 ft  
(1) GAMMA\_GS: COMMON; AMCMISO\_EIE\_PLATE\_AEA: COMMON;  
PUIISO\_PLATE\_AEA: COMMON {Plutonium-238, Plutonium-239/240};  
UIISO\_PLATE\_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238};  
C14\_LSC: COMMON; I129\_SEP\_LEPS\_GS: COMMON; NI63\_LSC: COMMON;  
NP237\_LLE\_PLATE\_AEA: COMMON;  
SR10T\_SEP\_PRECIP\_GPC: COMMON {Total beta radiostrontium};  
TC99\_ETVDSK\_LSC: COMMON; TRITIUM\_DIST\_LSC: COMMON;

**CHAIN OF POSSESSION**

**SIGN/ PRINT NAMES**

**SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM  
*Amoris James*

DATE/TIME  
6-01-16/1545

RECEIVED BY/STORED IN  
*JR 6/1/14*

DATE/TIME  
6-01-16/1545

DATE/TIME  
6-01-16/1545

RELINQUISHED BY/REMOVED FROM

DATE/TIME

RECEIVED BY/STORED IN

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LABORATORY SECTION

RECEIVED BY

DATE/TIME

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DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DATE/TIME

DATE/TIME

DATE/TIME

PRINTED ON 5/19/2016

FSR ID = FSR32333

TRVL NUM = TRVL-16-150

A-6003-618 (REV 2)



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-727	PAGE 1 OF 1
COLLECTOR <i>Don Russell</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C8706, Core 25, B324T1	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. NA	ACTUAL SAMPLE DEPTH 158.5'-160.5'	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302914	METHOD OF SHIPMENT GOVERNMENT/VEHICLE COMPANY <i>OR Shelby</i>	<b>ORIGINAL</b>	
SHIPPED TO TestAmerica Incorporated, Richland	BILL OF LADING/AIR BILL NO. NA				

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JAFTA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	PRESERVATION		HOLDING TIME		TYPE OF CONTAINER		NO. OF CONTAINER(S)		VOLUME		SPECIAL HANDLING AND/OR STORAGE
		Cool <= 6C	None	30 Days	6 Months	G/P	G/P	1	1	60ml	500mL	
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Sludge X=Other												
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B35N97	SOIL	5/26/16	1615	X								X

*#3189  
W61124*

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Don Russell</i>	RECEIVED BY/STORED IN <i>GTI Refidicator</i>	Sample From HEIS #: <u>B324T1</u> Actual Aliquot Collection Depth: <u>158.5'-160.5'</u> (1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON; PUISO_PLATE_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_LLE_PLATE_AEA: COMMON; SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;
DATE/TIME 5/26/16 1630	DATE/TIME 5/26/16 1500	
RELINQUISHED BY/REMOVED FROM <i>GTI Refidicator</i>	RECEIVED BY/STORED IN <i>An Thia Dai</i>	
DATE/TIME 5/26/16 1500	DATE/TIME 5-01-16/ 1500	
RELINQUISHED BY/REMOVED FROM <i>An Thia Dai</i>	RECEIVED BY/STORED IN <i>Red S. Box</i>	
DATE/TIME 6-01-16/ 1545	DATE/TIME 6-01-16/ 1545	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

### Detection Summary

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

**Client Sample ID: B35N99**

**Lab Sample ID: 300-3189-1**

No Detections.

**Client Sample ID: B35NB1**

**Lab Sample ID: 300-3189-2**

No Detections.

**Client Sample ID: B35N97**

**Lab Sample ID: 300-3189-3**

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

TestAmerica Job ID: 300-3189-1  
 SDG: WC1126

**Client Sample ID: B35N99**  
**Date Collected: 06/01/16 11:30**  
**Date Received: 06/01/16 15:45**

**Lab Sample ID: 300-3189-1**  
**Matrix: Soil**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		06/15/16 08:52	06/15/16 17:02	1

**Client Sample ID: B35NB1**  
**Date Collected: 06/01/16 13:10**  
**Date Received: 06/01/16 15:45**

**Lab Sample ID: 300-3189-2**  
**Matrix: Soil**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		06/15/16 08:52	06/15/16 17:06	1

**Client Sample ID: B35N97**  
**Date Collected: 05/26/16 16:15**  
**Date Received: 06/01/16 15:45**

**Lab Sample ID: 300-3189-3**  
**Matrix: Soil**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		06/15/16 08:52	06/15/16 17:08	1

QC Sample Results

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4550/1-A  
Matrix: Solid  
Analysis Batch: 4678

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 4550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		06/15/16 08:52	06/15/16 17:00	1

Lab Sample ID: LCS 300-4550/2-A  
Matrix: Solid  
Analysis Batch: 4678

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 4550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	20.0	19.64		mg/Kg		98	85 - 115

Lab Sample ID: 300-3189-1 MS  
Matrix: Soil  
Analysis Batch: 4678

Client Sample ID: B35N99  
Prep Type: Total/NA  
Prep Batch: 4550

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	30.0	27.81		mg/Kg		93	75 - 125

Lab Sample ID: 300-3189-1 MSI  
Matrix: Soil  
Analysis Batch: 4678

Client Sample ID: B35N99  
Prep Type: Total/NA  
Prep Batch: 4550

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.15	U	727	750.1	D	mg/Kg		103	

Lab Sample ID: 300-3189-1 DU  
Matrix: Soil  
Analysis Batch: 4678

Client Sample ID: B35N99  
Prep Type: Total/NA  
Prep Batch: 4550

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: 300-3189-1  
 SDG: WC1126

General Chemistry

Prep Batch: 4550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3189-1	B35N99	Total/NA	Soil	3060A	
300-3189-1 DU	B35N99	Total/NA	Soil	3060A	
300-3189-1 MS	B35N99	Total/NA	Soil	3060A	
300-3189-1 MSI	B35N99	Total/NA	Soil	3060A	
300-3189-2	B35NB1	Total/NA	Soil	3060A	
300-3189-3	B35N97	Total/NA	Soil	3060A	
LCS 300-4550/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 300-4550/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 4678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3189-1	B35N99	Total/NA	Soil	7196A	4550
300-3189-1 DU	B35N99	Total/NA	Soil	7196A	4550
300-3189-1 MS	B35N99	Total/NA	Soil	7196A	4550
300-3189-1 MSI	B35N99	Total/NA	Soil	7196A	4550
300-3189-2	B35NB1	Total/NA	Soil	7196A	4550
300-3189-3	B35N97	Total/NA	Soil	7196A	4550
LCS 300-4550/2-A	Lab Control Sample	Total/NA	Solid	7196A	4550
MB 300-4550/1-A	Method Blank	Total/NA	Solid	7196A	4550

Lab Chronicle

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

**Client Sample ID: B35N99**

Date Collected: 06/01/16 11:30

Date Received: 06/01/16 15:45

**Lab Sample ID: 300-3189-1**

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			2.5084 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5084 g	100 mL	4678	06/15/16 17:02	TDA	TAL RCH

**Client Sample ID: B35NB1**

Date Collected: 06/01/16 13:10

Date Received: 06/01/16 15:45

**Lab Sample ID: 300-3189-2**

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			2.5102 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5102 g	100 mL	4678	06/15/16 17:06	TDA	TAL RCH

**Client Sample ID: B35N97**

Date Collected: 05/26/16 16:15

Date Received: 06/01/16 15:45

**Lab Sample ID: 300-3189-3**

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			2.5029 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5029 g	100 mL	4678	06/15/16 17:08	TDA	TAL RCH

**Client Sample ID: B35N99**

Date Collected: 06/01/16 11:30

Date Received: 06/01/16 15:45

**Lab Sample ID: 300-3189-1 DU**

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			2.4986 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.4986 g	100 mL	4678	06/15/16 17:04	TDA	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-4550/2-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	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4678	06/15/16 17:01	TDA	TAL RCH

**Client Sample ID: Method Blank**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: MB 300-4550/1-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	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4678	06/15/16 17:00	TDA	TAL RCH

Lab Chronicle

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

Client Sample ID: B35N99

Lab Sample ID: 300-3189-1 MS

Date Collected: 06/01/16 11:30

Matrix: Soil

Date Received: 06/01/16 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5013 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5013 g	100 mL	4678	06/15/16 17:03	TDA	TAL RCH

Client Sample ID: B35N99

Lab Sample ID: 300-3189-1 MSI

Date Collected: 06/01/16 11:30

Matrix: Soil

Date Received: 06/01/16 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5013 g	100 mL	4550	06/15/16 08:52	HR	TAL RCH
Total/NA	Analysis	7196A		20	2.5013 g	100 mL	4678	06/15/16 17:05	TDA	TAL RCH

Laboratory References:

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

## Method Summary

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

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

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**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



June 23, 2016

## Sample Summary

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

TestAmerica Job ID: 300-3189-1  
SDG: WC1126

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3189-1	B35N99	Soil	06/01/16 11:30	06/01/16 15:45
300-3189-2	B35NB1	Soil	06/01/16 13:10	06/01/16 15:45
300-3189-3	B35N97	Soil	05/26/16 16:15	06/01/16 15:45

- 1
- 2
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- 11
- 12
- 13

### Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3189-1

SDG Number: WC1126

**Login Number: 3189**

**List Number: 1**

**Creator: Bock, Julie A**

**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.	True	
Residual Chlorine Checked.	N/A	

