

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: 300-3589-1
TestAmerica Sample Delivery Group: WC1303
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 3:02:40 PM
Steven Campbell, Project Mgmt. Assistant
steven.campbell@testamericainc.com

Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
whitney.ritari@testamericainc.com

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

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Definitions/Glossary

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

TestAmerica Job ID: 300-3589-1
SDG: WC1303

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.
□	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: 300-3589-1
SDG: WC1303

Job ID: 300-3589-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3589-1

Comments

This job is associated to SDG W07563 for rad analysis.

Receipt

The samples were received on 7/26/2016 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.9° C.

General Chemistry

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



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

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F16-020-1219

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 C9488, Core 7, B355C3	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 <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	FIELD LOGBOOK NO. N/A	ACTUAL SAMPLE DEPTH 57.2 - 59.2 ft	COA 302632	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A			

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/DATA 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
SAMPLE NO. B36843	MATRIX* SOIL	SAMPLE DATE 7/26/16	SAMPLE TIME 1400	DATE/TIME X	DATE/TIME X		

3589
w/c 1333
Due 8.25.16

300-3589 COC



CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM <i>Jim Russell</i>	DATE/TIME 7/26/16	RECEIVED BY/STORED IN <i>J. Bock</i>	DATE/TIME 7/26/16	RECEIVED BY/STORED IN <i>J. Bock, TARI</i>	DATE/TIME 7/26/16
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1) GAMMA_GS: COMMON; AMCMISO_IE_PRECIP_AEA: COMMON
 {Americium-241}; PUISO_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;

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

PRINTED ON 7/14/2016

FSR ID = FSR34161

TRVL NUM = TRVL-16-193

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

FIG-020-1237

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
C9507, Optional 2, B354D1

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

SAF NO.
F16-020

AIR QUALITY

ORIGINAL

ICE CHEST NO.
N/A

FIELD LOGBOOK NO.
N/A

ACTUAL SAMPLE DEPTH
158.7-161.7

COA
302632

METHOD OF SHIPMENT
GOVERNMENT VEHICLE

SHIPPED TO
TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

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

POSSIBLE SAMPLE HAZARDS/ REMARKS
*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

7196 CR6; COMMON; IN SPECIAL INSTRUCTIONS

SPECIAL HANDLING AND/OR STORAGE
N/A

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B36861	SOIL	7/20/16	12:00	X	X

3589
W061333

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM
John Russell DuRoi DATE/TIME
7/20/16 15:00
RECEIVED BY/STORED IN
J. Bock DATE/TIME
7/20-16 15:00

RELINQUISHED BY/REMOVED FROM
DATE/TIME
RECEIVED BY/STORED IN
DATE/TIME

LABORATORY SECTION
RECEIVED BY
DATE/TIME

FINAL SAMPLE DISPOSITION
DISPOSAL METHOD
DATE/TIME

(1) GAMMA, GS: COMMON; AMCMISO, IE PRECIP AEA: COMMON
{Americium-241}; PUISO, IE PRECIP AEA: COMMON {Plutonium-238,
Plutonium-239/240}; UISO, 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};
SR107, SEP, PRECIP, GPC: COMMON {Total beta radiostrontium};
TC99, ETVDISK, LSC: COMMON; TRITIUM, DIST, LSC: COMMON;

PRINTED ON 7/14/2016

FSR ID = FSR34170

TRVL NUM = TRVL-16-194

A-6003-618 (REV 2)

Detection Summary

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

TestAmerica Job ID: 300-3589-1
SDG: WC1303

Client Sample ID: B36843

Lab Sample ID: 300-3589-1

No Detections.

Client Sample ID: B36847

Lab Sample ID: 300-3589-2

No Detections.

Client Sample ID: B36861

Lab Sample ID: 300-3589-3

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: 300-3589-1
 SDG: WC1303

Client Sample ID: B36843

Lab Sample ID: 300-3589-1

Date Collected: 07/26/16 14:00

Matrix: Soil

Date Received: 07/26/16 15:40

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 15:11	1

Client Sample ID: B36847

Lab Sample ID: 300-3589-2

Date Collected: 07/26/16 14:30

Matrix: Soil

Date Received: 07/26/16 15:40

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 15:16	1

Client Sample ID: B36861

Lab Sample ID: 300-3589-3

Date Collected: 07/26/16 12:00

Matrix: Soil

Date Received: 07/26/16 15:40

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 15:17	1

QC Sample Results

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

TestAmerica Job ID: 300-3589-1
 SDG: WC1303

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: 300-3589-1 MS
 Matrix: Soil
 Analysis Batch: 5300

Client Sample ID: B36843
 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: 300-3589-1 MSI
 Matrix: Soil
 Analysis Batch: 5300

Client Sample ID: B36843
 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: 300-3589-1 DU
 Matrix: Soil
 Analysis Batch: 5300

Client Sample ID: B36843
 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: 300-3589-1
 SDG: WC1303

General Chemistry

Prep Batch: 5194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3589-1	B36843	Total/NA	Soil	3060A	
300-3589-2	B36847	Total/NA	Soil	3060A	
300-3589-3	B36861	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	
300-3589-1 MS	B36843	Total/NA	Soil	3060A	
300-3589-1 MSI	B36843	Total/NA	Soil	3060A	
300-3589-1 DU	B36843	Total/NA	Soil	3060A	

Analysis Batch: 5300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3589-1	B36843	Total/NA	Soil	7196A	5194
300-3589-2	B36847	Total/NA	Soil	7196A	5194
300-3589-3	B36861	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
300-3589-1 MS	B36843	Total/NA	Soil	7196A	5194
300-3589-1 MSI	B36843	Total/NA	Soil	7196A	5194
300-3589-1 DU	B36843	Total/NA	Soil	7196A	5194

Lab Chronicle

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

TestAmerica Job ID: 300-3589-1
SDG: WC1303

Client Sample ID: B36843

Date Collected: 07/26/16 14:00

Date Received: 07/26/16 15:40

Lab Sample ID: 300-3589-1

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			2.5051 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:11	RLC	TAL RCH

Client Sample ID: B36847

Date Collected: 07/26/16 14:30

Date Received: 07/26/16 15:40

Lab Sample ID: 300-3589-2

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			2.501 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:16	RLC	TAL RCH

Client Sample ID: B36861

Date Collected: 07/26/16 12:00

Date Received: 07/26/16 15:40

Lab Sample ID: 300-3589-3

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			2.515 g	100 mL	5194	08/09/16 08:47	HR	TAL RCH
Total/NA	Analysis	7196A		1			5300	08/09/16 15:17	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: B36843

Date Collected: 07/26/16 14:00

Date Received: 07/26/16 15:40

Lab Sample ID: 300-3589-1 MS

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			2.503 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: 300-3589-1
 SDG: WC1303

Client Sample ID: B36843

Lab Sample ID: 300-3589-1 MSI

Date Collected: 07/26/16 14:00

Matrix: Soil

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

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Method Summary

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

TestAmerica Job ID: 300-3589-1
SDG: WC1303

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: 300-3589-1
SDG: WC1303

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3589-1	B36843	Soil	07/26/16 14:00	07/26/16 15:40
300-3589-2	B36847	Soil	07/26/16 14:30	07/26/16 15:40
300-3589-3	B36861	Soil	07/26/16 12:00	07/26/16 15:40

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3589-1

SDG Number: WC1303

Login Number: 3589

List Number: 1

Creator: Bock, Julie A

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	