

7/15/2016

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: 300-3374-1
TestAmerica Sample Delivery Group: WC1208
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:
7/15/2016 8:38:29 AM
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

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Definitions/Glossary

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Qualifiers

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
D	The reported value is from a dilution.
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)

Case Narrative

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Job ID: 300-3374-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3374-1

Comments

This job is associated to SDG W07529 for rad analysis.

Receipt

The samples were received on 6/27/2016 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 14.0° C.

General Chemistry

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

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CH2MHILL Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

FL6-020-1207

PAGE 1 OF 1

COLLECTOR <i>Antonio Jimenez</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9487, Core 28, B34WF1	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. NA	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	ORIGINAL
ICE CHEST NO. NA	ACTUAL SAMPLE DEPTH 188.2-189.7'	COA 302632	METHOD OF SHIPMENT -GOVERNMENT VEHICLE	COMPANY <i>JE 6/21/14</i>	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA	BILL OF LADING/AIR BILL NO. NA			

MATRIX*	SPECIAL HANDLING AND/OR STORAGE	PRESERVATION		HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
		Cool <=6C	None					
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SF=Setiment T=Fltssue V=Vegetation W=Water WI=Wide X=Other	*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			30 Days	G/P	1	60ml	7196 CR6: COMMON; IN SPECIAL INSTRUCTIONS
B362K3	SOIL							

*433314
use 1204
Due 9-21-14*



300-3374 COC

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Antonio Jimenez</i>	RECEIVED BY/STORED IN <i>J. Bock, TARI</i>	(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 radiostromtium}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;
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	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 6/22/2016 FSR ID = FSR333540 TRVL NUM = TRVL-16-183 A-6003-618 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-1205	PAGE 1 OF 1
COLLECTOR Antwain James	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNOVER 30 Days / 30 Days
SAMPLING LOCATION C9487, Core 23, B34WD1	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. NA	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. NA	ACTUAL SAMPLE DEPTH 1630-1660 ft	COA 302632	BILL OF LADING/AIR BILL NO. NA	COMPANY JR	DATE 7/27/14
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA	NO. OF CONTAINER(S) 1	VOLUME 60ml	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	ORIGINAL

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION		HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SPECIAL HANDLING AND/OR STORAGE
				Cool <=6C	None					
B362K1	SOIL	7/27/14	1000	X	X					

3324
USE 1208

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM Antwain James	DATE/TIME 6-27-14/160	RECEIVED BY/STORED IN J. Bock, TARB	DATE/TIME 6-27-14/1610	(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;	
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		F16-020-1209	PAGE 1 OF 1
COLLECTOR <i>Anthony Liams</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9487, Optional Core 4, B34WK9	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	ACTUAL SAMPLE DEPTH 217.0' - 219.0'	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	NO. OF CONTAINER(S) 1	VOLUME 60ml	500-ml	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO TestAmerica Incorporated, Richland	PRESERVATION Cool <= 6C	HOLDING TIME 30 Days	TYPE OF CONTAINER G/P	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	COMPANY JR 4/27/16
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Sediment SE=Sediment T=Issue 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, NA	NO. OF CONTAINER(S) 1	VOLUME 60ml	500-ml	ORIGINAL

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B362K5	SOIL	6/23/16	1130	X	X

*335M4
W/C1205*

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Antonio Liams</i>	DATE/TIME 6-27-16/1610	RECEIVED BY/STORED IN <i>Bob J. Bock</i>	DATE/TIME 6-27-16/1610	(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;	
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	DISPOSED BY	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	TITLE	DATE/TIME	DISPOSED BY	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FIG-020-1203		PAGE 1 OF 1	
COLLECTOR A. Saimes	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNDOWN 30 Days / 30 Days		
SAMPLING LOCATION C9487, Optional Core 1, B34WK3	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	ACTUAL SAMPLE DEPTH 113.3 - 116.3	COA 302632	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL		
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A					
SHIPPED TO TestAmerica Incorporated, Richland							

MATRIX*	POSSIBLE SAMPLE HAZARDS/REMARKS	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=Wipe X=Other	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA											
B362J9	SOIL											

Handwritten: 33m, WCE1208

CHAIN OF POSSESSION	SIGN/PRINT NAMES	SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Arvid Jaimis/West</i>	RECEIVED BY/STORED IN <i>J. Bock, TARB</i>	(1) GAMMA_GS: COMMON; AMCMISO_EIE_PLATE_AEA: COMMON; PUISO_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; SRTOT_SEP_PRECIP_GPC: COMMON {Total beta radioisotopes}; TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;	
DATE/TIME 6-27-16/1610	DATE/TIME 6-27-16/1345		
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		
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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	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: 300-3374-1
SDG: WC1208

Client Sample ID: B362K3

Lab Sample ID: 300-3374-1

No Detections.

Client Sample ID: B362K1

Lab Sample ID: 300-3374-2

No Detections.

Client Sample ID: B362K5

Lab Sample ID: 300-3374-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.43	B	2.0	0.15	mg/Kg	1		7196A	Total/NA

Client Sample ID: B362J9

Lab Sample ID: 300-3374-4

No Detections.

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: 300-3374-1
 SDG: WC1208

Client Sample ID: B362K3

Lab Sample ID: 300-3374-1

Date Collected: 06/27/16 11:00

Matrix: Soil

Date Received: 06/27/16 16:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 14:59	1

Client Sample ID: B362K1

Lab Sample ID: 300-3374-2

Date Collected: 06/27/16 10:00

Matrix: Soil

Date Received: 06/27/16 16:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 15:12	1

Client Sample ID: B362K5

Lab Sample ID: 300-3374-3

Date Collected: 06/27/16 11:30

Matrix: Soil

Date Received: 06/27/16 16:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.43	B	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 15:25	1

Client Sample ID: B362J9

Lab Sample ID: 300-3374-4

Date Collected: 06/27/16 13:45

Matrix: Soil

Date Received: 06/27/16 16:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 15:38	1

QC Sample Results

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4801/1-A
Matrix: Solid
Analysis Batch: 4832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 11:01	1

Lab Sample ID: LCS 300-4801/2-A
Matrix: Solid
Analysis Batch: 4832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	20.0	19.94		mg/Kg		100	85 - 115

Lab Sample ID: 300-3322-A-1-B MS
Matrix: Solid
Analysis Batch: 4832

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.59	B	29.9	28.55		mg/Kg		93	75 - 125

Lab Sample ID: 300-3322-A-1-D MSI
Matrix: Solid
Analysis Batch: 4832

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.59	B	630	599.2	D	mg/Kg		95	

Lab Sample ID: 300-3322-A-1-C DU
Matrix: Solid
Analysis Batch: 4832

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.59	B	0.612	B	mg/Kg			35

QC Association Summary

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

General Chemistry

Prep Batch: 4801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3322-A-1-B MS	Matrix Spike	Total/NA	Solid	3060A	
300-3322-A-1-C DU	Duplicate	Total/NA	Solid	3060A	
300-3322-A-1-D MSI	Matrix Spike	Total/NA	Solid	3060A	
300-3374-1	B362K3	Total/NA	Soil	3060A	
300-3374-2	B362K1	Total/NA	Soil	3060A	
300-3374-3	B362K5	Total/NA	Soil	3060A	
300-3374-4	B362J9	Total/NA	Soil	3060A	
LCS 300-4801/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 300-4801/1-A	Method Blank	Total/NA	Solid	3060A	

Analysis Batch: 4832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3322-A-1-B MS	Matrix Spike	Total/NA	Solid	7196A	4801
300-3322-A-1-C DU	Duplicate	Total/NA	Solid	7196A	4801
300-3322-A-1-D MSI	Matrix Spike	Total/NA	Solid	7196A	4801
300-3374-1	B362K3	Total/NA	Soil	7196A	4801
300-3374-2	B362K1	Total/NA	Soil	7196A	4801
300-3374-3	B362K5	Total/NA	Soil	7196A	4801
300-3374-4	B362J9	Total/NA	Soil	7196A	4801
LCS 300-4801/2-A	Lab Control Sample	Total/NA	Solid	7196A	4801
MB 300-4801/1-A	Method Blank	Total/NA	Solid	7196A	4801

Lab Chronicle

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Client Sample ID: B362K3

Date Collected: 06/27/16 11:00

Date Received: 06/27/16 16:10

Lab Sample ID: 300-3374-1

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			2.5034 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5034 g	100 mL	4832	07/07/16 14:59	HR	TAL RCH

Client Sample ID: B362K1

Date Collected: 06/27/16 10:00

Date Received: 06/27/16 16:10

Lab Sample ID: 300-3374-2

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			2.5007 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5007 g	100 mL	4832	07/07/16 15:12	HR	TAL RCH

Client Sample ID: B362K5

Date Collected: 06/27/16 11:30

Date Received: 06/27/16 16:10

Lab Sample ID: 300-3374-3

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			2.5107 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5107 g	100 mL	4832	07/07/16 15:25	HR	TAL RCH

Client Sample ID: B362J9

Date Collected: 06/27/16 13:45

Date Received: 06/27/16 16:10

Lab Sample ID: 300-3374-4

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			2.5088 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5088 g	100 mL	4832	07/07/16 15:38	HR	TAL RCH

Client Sample ID: Duplicate

Date Collected: 06/21/16 09:30

Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-A-1-C DU

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			2.5024 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5024 g	100 mL	4832	07/07/16 11:54	HR	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4801/2-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	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4832	07/07/16 11:15	HR	TAL RCH

TestAmerica Richland

Lab Chronicle

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4801/1-A

Date Collected: N/A

Matrix: Solid

Date Received: N/A

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	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4832	07/07/16 11:01	HR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3322-A-1-B MS

Date Collected: 06/21/16 09:30

Matrix: Solid

Date Received: 06/21/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5043 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5043 g	100 mL	4832	07/07/16 11:41	HR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3322-A-1-D MSI

Date Collected: 06/21/16 09:30

Matrix: Solid

Date Received: 06/21/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5023 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		20	2.5023 g	100 mL	4832	07/07/16 12:07	HR	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: 300-3374-1
SDG: WC1208

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



7/15/2016

Sample Summary

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

TestAmerica Job ID: 300-3374-1
SDG: WC1208

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3374-1	B362K3	Soil	06/27/16 11:00	06/27/16 16:10
300-3374-2	B362K1	Soil	06/27/16 10:00	06/27/16 16:10
300-3374-3	B362K5	Soil	06/27/16 11:30	06/27/16 16:10
300-3374-4	B362J9	Soil	06/27/16 13:45	06/27/16 16:10

- 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: 300-3374-1

SDG Number: WC1208

Login Number: 3374

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.	N/A	
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	