

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: 300-3322-1
TestAmerica Sample Delivery Group: WC1188
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 8:20:30 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

Review your project results through
TotalAccess

Have a Question?



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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: 300-3322-1
SDG: WC1188

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: 300-3322-1
SDG: WC1188

Job ID: 300-3322-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3322-1

Comments

This job is associated to SDG W07519 for rad analysis.

Receipt

The samples were received on 6/21/2016 3:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.8° 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

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

FIG-020-1189

PAGE 1 OF 1

COLLECTOR
Antonio James

COMPANY CONTACT
TODAK, D
376-6427

PROJECT COORDINATOR
TODAK, D

PRICE CODE 8H
AIR QUALITY

DATA TURNAROUND
30 Days / 30 Days

SAMPLING LOCATION
C9491, Core 10, B34RP4

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

SAF NO. F16-020

METHOD OF SHIPMENT
VEHICLE COMPANY

ICE CHEST NO.
N/A

FIELD LOGBOOK NO.
N/A

ACTUAL SAMPLE DEPTH
83.8 - 85.8 ft

COA 302632

ORIGINAL

SHIPPED TO
TestAmerica Incorporated, Richland

OFFSITE PROPERTY NO.
N/A

BILL OF LADING/AIR BILL NO.
N/A

JR 6/21/16

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 regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 438.1. NA

PRESERVATION
Cool <=6C
30 Days
6 Months
None

HOLDING TIME

TYPE OF CONTAINER
G/P
G/P

NO. OF CONTAINER(S)
1
1

VOLUME
60mL
500mL

SAMPLE ANALYSIS
7196 CR6: COMMON;
SEE ITEM (1) IN SPECIAL INSTRUCTIONS

D 3322
USE 1189
Done 9-21-16

SAMPLE NO.	SOIL	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B36220			6/21/16	0930	X	X



300-3322 COC

CHAIN OF POSSESSION

SIGN / PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM
Antonio James
DATE/TIME
6-21-16/1550
RECEIVED BY/STORED IN
J. Bock, TABL 6-21-16/1550
DATE/TIME

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

(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};
G14_LSC: COMMON; I129_SEP_LEPS_GS: COMMON; N163_LSC: COMMON;
NP237_LLE_PLATE_AEA: COMMON;
SRTOI_SEP_PRECIP_GPC: COMMON {Total beta radiostrontium};
TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;

LABORATORY SECTION
RECEIVED BY
DATE/TIME

FINAL SAMPLE DISPOSITION
DISPOSAL METHOD
DATE/TIME

TITLE
DISPOSED BY
DATE/TIME

PRINTED ON 6/20/2016

FSR ID = FSR33490

TRVL NUM = TRVL-16-180

A-6003-618 (REV 2)

COLLECTOR
Antonio James
SAMPLING LOCATION
 C9491, Optional 3, B34T62
ICE CHEST NO.
 NA
SHIPPED TO
 TestAmerica Incorporated, Richland

COMPANY CONTACT
 TODAK, D
PROJECT DESIGNATION
 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling
FIELD LOGBOOK NO.
 NA
OFFSITE PROPERTY NO.
 NA

TELEPHONE NO.
 376-6427
ACTUAL SAMPLE DEPTH
 234.7'-236.7'

PROJECT COORDINATOR
 TODAK, D
SAF NO.
 F16-020
COA
 302632
BILL OF LADING/AIR BILL NO.
 NA

PRICE CODE 8H
AIR QUALITY
METHOD OF SHIPMENT
~~GOVERNMENT VEHICLE~~
COMPANY *ur 12/14*
ORIGINAL

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION

HOLDING TIME

TYPE OF CONTAINER

NO. OF CONTAINER(S)

VOLUME

SAMPLE ANALYSIS

Cool <=6C None

30 Days 6 Months

G/P G/P

1 1

60ml 500ml

7196, CR6; COMMON; SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	SOIL	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B36228			6/21/14	1400	X	X

*# 3322
well 1184*

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM
Antonio James
 DATE/TIME
 6-21-14/1550
 RECEIVED BY/STORED IN
J. Bock, TARR
 DATE/TIME
 6-21-14/1550

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
FINAL SAMPLE DISPOSITION
 DISPOSAL METHOD

(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; N163_LSC: COMMON;
 NP237_LLE_PLATE_AEA: COMMON;
 SRTOT_SEP_PRECIP_GPC: COMMON {total beta radiostrontium};
 TC99_ETVDSK_LSC: COMMON; TRITIUM_DIST_LSC: COMMON;

COLLECTOR
Antonio James

SAMPLING LOCATION
C9491, Optional 2, B34T60

ICE CHEST NO.
NA

SHIPPED TO
TestAmerica Incorporated, Richland

COMPANY CONTACT
TODAK, D
376-6427

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

FIELD LOGBOOK NO.
NA

ACTUAL SAMPLE DEPTH
218.5 - 220.5'

OFFSITE PROPERTY NO.
NA

PROJECT COORDINATOR
TODAK, D

PRICE CODE
8H

AIR QUALITY

METHOD OF SHIPMENT
ORIGINAL

BILL OF LADING/AIR BILL NO.
NA

SAF NO.
F16-020

COA
302632

DATE
30 Days / 30 Days

TURNAROUND
30 Days / 30 Days

VEHICLE
COMPANY JR 4/21/14

SAMPLE NO.	MATRIX*	SPECIAL HANDLING AND/OR STORAGE	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE DATE	SAMPLE TIME	Cool <=6C	None	7196 CR6: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B36226	SOIL							4/21/14	1105	X	X		

CHAIN OF POSSESSION

SIGN / PRINT NAMES

SPECIAL INSTRUCTIONS
(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
Antonio James
DATE/TIME: 6-21-16/1550
RECEIVED BY/STORED IN: J. Bock, TARL
DATE/TIME: 6-21-16/1550

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

LABORATORY SECTION
RECEIVED BY

FINAL SAMPLE DISPOSITION
DISPOSAL METHOD

PRINTED ON 6/20/2016

FSR ID = FSR333493

TRVL NUM = TRVL-16-180

A-6003-618 (REV 2)

Detection Summary

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

TestAmerica Job ID: 300-3322-1
SDG: WC1188

Client Sample ID: B36220

Lab Sample ID: 300-3322-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.59	B	2.0	0.15	mg/Kg	1		7196A	Total/NA

Client Sample ID: B36228

Lab Sample ID: 300-3322-2

No Detections.

Client Sample ID: B36226

Lab Sample ID: 300-3322-3

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: 300-3322-1
 SDG: WC1188

Client Sample ID: B36220
 Date Collected: 06/21/16 09:30
 Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-1
 Matrix: Soil

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.59	B	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 11:28	1

Client Sample ID: B36228
 Date Collected: 06/21/16 14:00
 Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-2
 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		07/07/16 08:25	07/07/16 12:21	1

Client Sample ID: B36226
 Date Collected: 06/21/16 11:05
 Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-3
 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		07/07/16 08:25	07/07/16 12:34	1

QC Sample Results

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

TestAmerica Job ID: 300-3322-1
 SDG: WC1188

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: 300-3322-1 MSI
 Matrix: Soil
 Analysis Batch: 4832

Client Sample ID: B36220
 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-B MS
 Matrix: Soil
 Analysis Batch: 4832

Client Sample ID: 300-3322-A-1-B MS
 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-C DU
 Matrix: Soil
 Analysis Batch: 4832

Client Sample ID: 300-3322-A-1-C DU
 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: 300-3322-1
 SDG: WC1188

General Chemistry

Prep Batch: 4801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3322-1	B36220	Total/NA	Soil	3060A	
300-3322-1 MSI	B36220	Total/NA	Soil	3060A	
300-3322-2	B36228	Total/NA	Soil	3060A	
300-3322-3	B36226	Total/NA	Soil	3060A	
300-3322-A-1-B MS	300-3322-A-1-B MS	Total/NA	Soil	3060A	
300-3322-A-1-C DU	300-3322-A-1-C DU	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
300-3322-1	B36220	Total/NA	Soil	7196A	4801
300-3322-1 MSI	B36220	Total/NA	Soil	7196A	4801
300-3322-2	B36228	Total/NA	Soil	7196A	4801
300-3322-3	B36226	Total/NA	Soil	7196A	4801
300-3322-A-1-B MS	300-3322-A-1-B MS	Total/NA	Soil	7196A	4801
300-3322-A-1-C DU	300-3322-A-1-C DU	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: 300-3322-1
SDG: WC1188

Client Sample ID: B36220

Date Collected: 06/21/16 09:30

Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-1

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			2.5016 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5016 g	100 mL	4832	07/07/16 11:28	HR	TAL RCH

Client Sample ID: B36228

Date Collected: 06/21/16 14:00

Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-2

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			2.5043 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 12:21	HR	TAL RCH

Client Sample ID: B36226

Date Collected: 06/21/16 11:05

Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-3

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			2.5092 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5092 g	100 mL	4832	07/07/16 12:34	HR	TAL RCH

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

Date Collected: 06/21/16 09:30

Date Received: 06/21/16 15:50

Lab Sample ID: 300-3322-A-1-C 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			2.5024 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

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-4801/1-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	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

TestAmerica Richland

Lab Chronicle

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

TestAmerica Job ID: 300-3322-1
 SDG: WC1188

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

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

Date Collected: 06/21/16 09:30

Matrix: Soil

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: B36220

Lab Sample ID: 300-3322-1 MSI

Date Collected: 06/21/16 09:30

Matrix: Soil

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: 300-3322-1
SDG: WC1188

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: 300-3322-1
SDG: WC1188

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3322-1	B36220	Soil	06/21/16 09:30	06/21/16 15:50
300-3322-2	B36228	Soil	06/21/16 14:00	06/21/16 15:50
300-3322-3	B36226	Soil	06/21/16 11:05	06/21/16 15:50

- 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: 300-3322-1

SDG Number: WC1188

Login Number: 3322

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.	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 <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	