

October 28, 2015

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: 300-1151-1
TestAmerica Sample Delivery Group: WC0467
Client Project/Site: CH2M Hill Chemical

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

Attn: CPP Sample Management



Authorized for release by:
10/28/2015 2:34:32 PM
Steven Campbell, Quality Assurance Assistant
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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 elss than five times the MDL.



LINKS

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Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Qualifiers

General Chemistry

Qualifier	Qualifier Description
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)

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Job ID: 300-1151-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1151-1**

Comments

No additional comments.

Receipt

The samples were received on 10/19/2015 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.4° C.

General Chemistry

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

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506 7B / 58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A

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

SPECIAL INSTRUCTIONS
 Submit deliverables & invoices to ^COP Sample Management

Total Activity Exemption: Yes No

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B32V/F5	N	OCT 19 2015	12:10	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32V/F7	Y	W	Y	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 28, 2015

#1151
W 06467

Relinquished By	S.W. King/CHPRC	Print Sign	Date/Time	10/19/15	Received By	F.M. Hall/CHPRC	Print Sign	Date/Time	10/19/15
Relinquished By	F.M. Hall/CHPRC	Print Sign	Date/Time	10/19/15	Received By	J. Bock, TARL	Print Sign	Date/Time	10/19/15
Relinquished By		Print Sign	Date/Time		Received By		Print Sign	Date/Time	

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
DS	= Drum Solids
DL	= Drum Liquids
T	= Tissue
WI	= Wipe
L	= Liquid
V	= Vegetation
X	= Other

FINAL SAMPLE DISPOSITION
 Disposal Method (e.g., Return to customer, per lab procedure, used in process) _____ Date/Time _____

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-001-178
Page 1 of 1

Collector	S.W. KingCHRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506 178 / 58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A

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

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32VC4	N		OCT 19 2015	1150	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B32VC5	Y		W	Y	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C

SPECIAL INSTRUCTIONS Hold Time
 Submit deliverables & invoices to CPP Sample Management.

Total Activity Exemption: Yes No

#1151
W 0467

Relinquished By	S.W. KingCHRC	Print	Sign	Date/Time	10/19/15	Received By	F.M. HallCHRC	Print	Sign	Date/Time	10/19/15	Matrix *
Relinquished By	F.M. HallCHRC	Print	Sign	Date/Time	OCT 19 2015 1430	Received By	J. Bock, TARL	Print	Sign	Date/Time	OCT 19 2015 1430	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

October 28, 2015

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
X16-001-177
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506 78/58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A

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

SPECIAL INSTRUCTIONS Hold Time
 Submit deliverables & invoices to ^CPP Sample Management.
 Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32VC2	Y		OCT 19 2015	1015	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32VC1	N	W			1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 28, 2015

#1151
W C0467

Relinquished By	S.W. King/CHPRC	Print	Sign	Date/Time	10/19/15	Received By	F.M. Hall/CHPRC	Print	Sign	Date/Time	10/19/15
Relinquished By	F.M. Hall/CHPRC	Print	Sign	Date/Time	10/19/15 1430	Received By	J. Bock, TARL	Print	Sign	Date/Time	10/19/15 1430
Relinquished By				Date/Time		Received By				Date/Time	
Relinquished By				Date/Time		Received By				Date/Time	

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
DS	= Drums Solids
DL	= Drums Liquids
T	= Tissue
WI	= Wipe
L	= Liquid
V	= Vegetation
X	= Other

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-001-184
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506-78/58	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Submit deliverables & invoices to CFP Sample Management		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32VF2	Y	OCT 19 2015	0922	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32VF1	N	W		1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 28, 2015

#1151
W60467

Relinquished By	S.W. King/CHPRC	Print	Sign	Date/Time	1/3/15	Received By	F.M. Harb/CHPRC	Print	Sign	Date/Time	1/3/15
Relinquished By	F.M. Harb/CHPRC			Date/Time	OCT 19 2015	Received By				Date/Time	OCT 19 2015
Relinquished By				Date/Time	OCT 19 2015 1430	Received By				Date/Time	OCT 19 2015 1430
Relinquished By				Date/Time		Received By				Date/Time	
Relinquished By				Date/Time		Received By				Date/Time	
FINAL SAMPLE DISPOSITION						Disposal Method (e.g., Return to customer, per lab procedure, used in process)					
PRINTED ON 9/28/2015						FSR ID = FSR5404					

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
DS	= Drum Solids
DL	= Drum Liquids
T	= Tissue
WT	= Wipe
L	= Liquid
V	= Vegetation
X	= Other

October 28, 2015
Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Client Sample ID: B32VF4

Lab Sample ID: 300-1151-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.019		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VF6

Lab Sample ID: 300-1151-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.020		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VF5

Lab Sample ID: 300-1151-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.019		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VF7

Lab Sample ID: 300-1151-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.019		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VC4

Lab Sample ID: 300-1151-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.017		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VC5

Lab Sample ID: 300-1151-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VC2

Lab Sample ID: 300-1151-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.020		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VC1

Lab Sample ID: 300-1151-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VF2

Lab Sample ID: 300-1151-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.013		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32VF1

Lab Sample ID: 300-1151-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.013		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 28, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Client Sample ID: B32VF4
Date Collected: 10/19/15 12:16
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.019		0.0040	0.0015	mg/L			10/19/15 18:15	1

Client Sample ID: B32VF6
Date Collected: 10/19/15 12:16
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.020		0.0040	0.0015	mg/L			10/19/15 18:16	1

Client Sample ID: B32VF5
Date Collected: 10/19/15 12:16
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.019		0.0040	0.0015	mg/L			10/19/15 18:16	1

Client Sample ID: B32VF7
Date Collected: 10/19/15 12:16
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.019		0.0040	0.0015	mg/L			10/19/15 18:19	1

Client Sample ID: B32VC4
Date Collected: 10/19/15 11:50
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.017		0.0040	0.0015	mg/L			10/19/15 18:19	1

Client Sample ID: B32VC5
Date Collected: 10/19/15 11:50
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			10/19/15 18:19	1

Client Sample ID: B32VC2
Date Collected: 10/19/15 10:18
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.020		0.0040	0.0015	mg/L			10/19/15 18:20	1

TestAmerica Richland

October 28, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Client Sample ID: B32VC1
Date Collected: 10/19/15 10:18
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			10/19/15 18:20	1

Client Sample ID: B32VF2
Date Collected: 10/19/15 09:22
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.013		0.0040	0.0015	mg/L			10/19/15 18:21	1

Client Sample ID: B32VF1
Date Collected: 10/19/15 09:22
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.013		0.0040	0.0015	mg/L			10/19/15 18:23	1

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
 SDG: WC0467

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-1647/3
Matrix: Water
Analysis Batch: 1647

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L	-		10/19/15 18:06	1

Lab Sample ID: LCS 300-1647/4
Matrix: Water
Analysis Batch: 1647

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.263		mg/L	-	105	80 - 120

Lab Sample ID: 300-1149-A-1 MS
Matrix: Water
Analysis Batch: 1647

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.022		0.0500	0.0744		mg/L	-	105	85 - 115

Lab Sample ID: 300-1149-A-1 DU
Matrix: Water
Analysis Batch: 1647

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.022		0.0220		mg/L	-	0.9	20

October 28, 2015
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

General Chemistry

Analysis Batch: 1647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1149-A-1 DU	Duplicate	Total/NA	Water	7196A	
300-1149-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-1151-1	B32VF4	Total/NA	Water	7196A	
300-1151-2	B32VF6	Total/NA	Water	7196A	
300-1151-3	B32VF5	Total/NA	Water	7196A	
300-1151-4	B32VF7	Total/NA	Water	7196A	
300-1151-5	B32VC4	Total/NA	Water	7196A	
300-1151-6	B32VC5	Total/NA	Water	7196A	
300-1151-7	B32VC2	Total/NA	Water	7196A	
300-1151-8	B32VC1	Total/NA	Water	7196A	
300-1151-9	B32VF2	Total/NA	Water	7196A	
300-1151-10	B32VF1	Total/NA	Water	7196A	
LCS 300-1647/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-1647/3	Method Blank	Total/NA	Water	7196A	

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
 SDG: WC0467

Client Sample ID: B32VF4

Date Collected: 10/19/15 12:16

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:15	AMC	TAL RCH

Client Sample ID: B32VF6

Date Collected: 10/19/15 12:16

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:16	AMC	TAL RCH

Client Sample ID: B32VF5

Date Collected: 10/19/15 12:16

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:16	AMC	TAL RCH

Client Sample ID: B32VF7

Date Collected: 10/19/15 12:16

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:19	AMC	TAL RCH

Client Sample ID: B32VC4

Date Collected: 10/19/15 11:50

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:19	AMC	TAL RCH

Client Sample ID: B32VC5

Date Collected: 10/19/15 11:50

Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:19	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
 SDG: WC0467

Client Sample ID: B32VC2
Date Collected: 10/19/15 10:18
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:20	AMC	TAL RCH

Client Sample ID: B32VC1
Date Collected: 10/19/15 10:18
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:20	AMC	TAL RCH

Client Sample ID: B32VF2
Date Collected: 10/19/15 09:22
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:21	AMC	TAL RCH

Client Sample ID: B32VF1
Date Collected: 10/19/15 09:22
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1151-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:23	AMC	TAL RCH

Client Sample ID: Duplicate
Date Collected: 10/19/15 10:45
Date Received: 10/19/15 14:30

Lab Sample ID: 300-1149-A-1 DU
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:09	AMC	TAL RCH

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 300-1647/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1647	10/19/15 18:06	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
 SDG: WC0467

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1647/3

Date Collected: N/A

Matrix: Water

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	Analysis	7196A		1			1647	10/19/15 18:06	AMC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-1149-A-1 MS

Date Collected: 10/19/15 10:45

Matrix: Water

Date Received: 10/19/15 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1		3.0 mL	1647	10/19/15 18:06	AMC	TAL RCH

Laboratory References:

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



Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

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



Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1151-1
SDG: WC0467

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1151-1	B32VF4	Water	10/19/15 12:16	10/19/15 14:30
300-1151-2	B32VF6	Water	10/19/15 12:16	10/19/15 14:30
300-1151-3	B32VF5	Water	10/19/15 12:16	10/19/15 14:30
300-1151-4	B32VF7	Water	10/19/15 12:16	10/19/15 14:30
300-1151-5	B32VC4	Water	10/19/15 11:50	10/19/15 14:30
300-1151-6	B32VC5	Water	10/19/15 11:50	10/19/15 14:30
300-1151-7	B32VC2	Water	10/19/15 10:18	10/19/15 14:30
300-1151-8	B32VC1	Water	10/19/15 10:18	10/19/15 14:30
300-1151-9	B32VF2	Water	10/19/15 09:22	10/19/15 14:30
300-1151-10	B32VF1	Water	10/19/15 09:22	10/19/15 14:30



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1151-1
SDG Number: WC0467

Login Number: 1151
List Number: 1
Creator: Friesz, Jordan D

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.	True	
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.	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	

