

July 6, 2017

# 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: 300-5685-1  
TestAmerica Sample Delivery Group: WC2125  
Client Project/Site: F16-047

For:  
CH2M Hill Plateau Remediation Company  
825 Jadwin Avenue  
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:  
7/6/2017 9:34:15 AM  
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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.*



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125



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## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
Z	Sample was prepped or analyzed beyond the specified holding time
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

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**Job ID: 300-5685-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative  
300-5685-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/21/2017 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

**General Chemistry**

Method 7196A: The following samples were received with less than (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: B39KN0 (300-5685-1), B39KM9 (300-5685-2), B39KM7 (300-5685-3) and B39KM6 (300-5685-4). For more information refer to SIR17-0793 attached to report.

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

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<b>SAMPLE ISSUE RESOLUTION (SIR) REPORT</b>	<b>SIR Number:</b> SIR17-0793 <b>Rev. Number:</b> 0 <b>Date Initiated:</b> 07/05/2017
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<b><u>SAMPLE EVENT INFORMATION</u></b>	
<b>SAF NUM(S):</b>	F16-047
<b>LABORATORY:</b>	TARL

<b><u>SAMPLING INFORMATION</u></b>	
<b>NUMBER OF SAMPLES:</b>	4
<b>SAMPLE NUMBERS:</b>	B39KM6, B39KM7, B39KM9, B39KN0
<b>SAMPLE MATRIX:</b>	WATER
<b>SDG NUM(S):</b>	WC2125

<b><u>ISSUE BACKGROUND</u></b>	
<b>CLASS:</b>	Field Sampling Issue
<b>TYPE:</b>	Analysis Hold Time Exceeded
<b>DESCRIPTION:</b>	The samples listed above were received with less than one shift (8 hours) remaining for Hexavalent Chromium analysis with a hold time of 24 hours. As such, there was insufficient time remaining to perform the analysis within hold time. The samples were analyzed for Hexavalent Chromium outside of 1x hold time but within 2x hold time.

<b><u>RESOLUTION</u></b>	
<b>PROPOSED RESOLUTION:</b>	Initiate SIR, report results and include hold time comment in the case narrative.
<b>FINAL RESOLUTION:</b>	Accept proposed resolution.

<b>SUBMITTED BY:</b>	
CAMPBELL, SC _____	07/05/2017 _____
<b>ACCEPTED BY:</b>	
FITZGERALD, SL _____	07/05/2017 _____

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		PAGE 1 OF 1	
COLLECTOR Kevin Patterson CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Air-Stripper Effluent, Valve V05-Y63	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micronutrient Analysis	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-047	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. NA	FIELD LOGBOOK NO. HNF-N-49 / 16	OFFSITE PROPERTY NO. NA	COA 304234	BILL OF LADING/AIR BILL NO. NA	
SHIPPED TO TestAmerica Incorporated, Richland					

MATRIX* A=Air DL=Drum L=Liquid 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/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C	HOLDING TIME 24 Hours	TYPE OF CONTAINER ag	NO. OF CONTAINER(S) 1	VOLUME 60mL	SAMPLE ANALYSIS 7196 CR6: COMMON;
SAMPLE NO. B39KNO	MATRIX* WATER	SAMPLE DATE JUN 20 2017	SAMPLE TIME 1305	SPECIAL HANDLING AND/OR STORAGE NA			

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wubias

**FILTER**

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	DATE/TIME JUN 20 2017 1305	RECEIVED BY/STORED IN SSU##	DATE/TIME JUN 20 2017 1305	Filtering shall be performed by SGRP Field Sampling Services using a 0.45µm filter while in the field. FILTER	
RELINQUISHED BY/REMOVED FROM SSU##	DATE/TIME JUN 21 2017 1700	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUN 21 2017 0730	FILTER	
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUN 21 2017 1225	RECEIVED BY/STORED IN J. Bock	DATE/TIME JUN 21 2017 1225	FILTER	
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
PRINTED ON 5/31/2017		TRVL NUM = TRVL-17-147	
		FSR ID = FSR45820	
		A-6003-618 (REV 2)	



July 6, 2017

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-047-285	PAGE 1 OF 1
COLLECTOR Kevin Patterson CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Air-Stripper Effluent, Valve V05-Y63	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micronutrient Analysis	SAF NO. F16-047	COA 304234	AIR QUALITY	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. NA	FIELD LOGBOOK NO. HNF-N-49116	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. NA	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA				

MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool <=6C	HOLDING TIME 24 Hours	TYPE OF CONTAINER ag	NO. OF CONTAINER(S) 1	VOLUME 60mL	SAMPLE ANALYSIS 7196 CR6; COMMON;
SPECIAL HANDLING AND/OR STORAGE NA							
SAMPLE NO. B39KM9	MATRIX* WATER	SAMPLE DATE JUN 20 2017	SAMPLE TIME 1305	SPECIAL INSTRUCTIONS TRVL-17-147			

SEAS  
WCEAS

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	RECEIVED BY/STORED IN Janelle Zunker CHPRC	JUN 20 2017 1350	JUN 20 2017 1350		
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	RECEIVED BY/STORED IN J. Boek, JR	JUN 21 2017 0730	JUN 21 2017 0730		
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	JUN 21 2017 1225	JUN 21 2017 1225		
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			
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY			

PRINTED ON 5/31/2017 FSR ID = FSR45820 TRVL NUM = TRVL-17-147 A-6003-618 (REV 2)



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CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-047-283	PAGE 1 OF 1
COLLECTOR Kevin Patterson CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, MBR Effluent, Valve V15-Y50	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micronutrient Analysis	SAF NO. F16-047	COA 304234	AIR QUALITY	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. NA	FIELD LOGBOOK NO. HNF-N-491 16	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. NA	ORIGINAL	

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Solids L=Liquid O=Oil S=Soil SF=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA	NO. OF CONTAINER(S) 1	PRESERVATION Cool <=6C
POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME 24 Hours	TYPE OF CONTAINER ag	VOLUME 60mL	
SPECIAL HANDLING AND/OR STORAGE NA	SAMPLE ANALYSIS 7196 CR6; COMMON;	SAMPLE DATE JUN 20 2017	SAMPLE TIME 1314	✓

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wca2125

FILTER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	DATE/TIME JUN 20 2017 1355	RECEIVED BY/STORED IN SSK#1	DATE/TIME JUN 20 2017 1355	Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. FILTER	
RELINQUISHED BY/REMOVED FROM SSK#1	DATE/TIME JUN 21 2017 0730	RECEIVED BY/STORED IN CHPRC	DATE/TIME JUN 21 2017 0730	FILTER	
RELINQUISHED BY/REMOVED FROM Janelle Zunkler CHPRC	DATE/TIME JUN 21 2017 1225	RECEIVED BY/STORED IN J. Bock, TAP	DATE/TIME JUN 21 2017 1225		
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		



July 6, 2017

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-047-282	PAGE 1 OF 1
COLLECTOR Karin Patterson CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, MBR Effluent, Valve V15-Y50	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micronutrient Analysis	SAF NO. F16-047	COA 304234	AIR QUALITY	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. NA	FIELD LOGBOOK NO. HNF-N-49116	ACTUAL SAMPLE DEPTH N/A	BILL OF LADING/AIR BILL NO. NA	ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. NA				

MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Whipe X=Other	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.	PRESERVATION Cool <=6C	HOLDING TIME 24 Hours	TYPE OF CONTAINER ag	NO. OF CONTAINER(S) 1	VOLUME 60mL	SAMPLE ANALYSIS 7196_CR6: COMMON;
SPECIAL HANDLING AND/OR STORAGE NA							
SAMPLE NO. B39KM6	MATRIX* WATER	SAMPLE DATE JUN 20 2017	SAMPLE TIME 1314	SERS we 2125			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS TRVL-17-147	
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JUN 20 2017 1300	RECEIVED BY/STORED IN Janelle Zuhair	DATE/TIME JUN 20 2017 1300		
RELINQUISHED BY/REMOVED FROM Janelle Zuhair	DATE/TIME JUN 21 2017 0730	RECEIVED BY/STORED IN J. Bock, TARL	DATE/TIME JUN 21 2017 1225		
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JUN 21 2017 1225	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	
PRINTED ON 5/31/2017	FSR ID = FSR45816	TRVL NUM = TRVL-17-147		A-6003-618 (REV 2)	



July 6, 2017  
Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

Client Sample ID: B39KN0

Lab Sample ID: 300-5685-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0043	Z	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39KM9

Lab Sample ID: 300-5685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39KM7

Lab Sample ID: 300-5685-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39KM6

Lab Sample ID: 300-5685-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

# July 6, 2017 Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

**Client Sample ID: B39KN0**

**Lab Sample ID: 300-5685-1**

Date Collected: 06/20/17 13:05

Matrix: Water

Date Received: 06/21/17 12:25

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0043	Z	0.0040	0.0015	mg/L			06/21/17 14:30	1

**Client Sample ID: B39KM9**

**Lab Sample ID: 300-5685-2**

Date Collected: 06/20/17 13:05

Matrix: Water

Date Received: 06/21/17 12:25

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L			06/21/17 14:31	1

**Client Sample ID: B39KM7**

**Lab Sample ID: 300-5685-3**

Date Collected: 06/20/17 13:14

Matrix: Water

Date Received: 06/21/17 12:25

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L			06/21/17 14:31	1

**Client Sample ID: B39KM6**

**Lab Sample ID: 300-5685-4**

Date Collected: 06/20/17 13:14

Matrix: Water

Date Received: 06/21/17 12:25

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0044	Z	0.0040	0.0015	mg/L			06/21/17 14:31	1

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

**Method: 7196A - Chromium, Hexavalent**

Lab Sample ID: MB 300-8365/3  
Matrix: Water  
Analysis Batch: 8365

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			06/21/17 14:27	1

Lab Sample ID: LCS 300-8365/4  
Matrix: Water  
Analysis Batch: 8365

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	0.254		mg/L		101	80 - 120

Lab Sample ID: 300-5685-1 MS  
Matrix: Water  
Analysis Batch: 8365

Client Sample ID: B39KN0  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0043	Z	0.0501	0.0536		mg/L		99	75 - 125

Lab Sample ID: 300-5685-1 DU  
Matrix: Water  
Analysis Batch: 8365

Client Sample ID: B39KN0  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0043	Z	0.00430		mg/L		0	20

July 6, 2017  
QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

**General Chemistry**

**Analysis Batch: 8365**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5685-1	B39KN0	Total/NA	Water	7196A	
300-5685-2	B39KM9	Total/NA	Water	7196A	
300-5685-3	B39KM7	Total/NA	Water	7196A	
300-5685-4	B39KM6	Total/NA	Water	7196A	
MB 300-8365/3	Method Blank	Total/NA	Water	7196A	
LCS 300-8365/4	Lab Control Sample	Total/NA	Water	7196A	
300-5685-1 MS	B39KN0	Total/NA	Water	7196A	
300-5685-1 DU	B39KN0	Total/NA	Water	7196A	

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Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

**Client Sample ID: B39KN0**  
Date Collected: 06/20/17 13:05  
Date Received: 06/21/17 12:25

**Lab Sample ID: 300-5685-1**  
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			8365	06/21/17 14:30	TP	TAL RCH

**Client Sample ID: B39KM9**  
Date Collected: 06/20/17 13:05  
Date Received: 06/21/17 12:25

**Lab Sample ID: 300-5685-2**  
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			8365	06/21/17 14:31	TP	TAL RCH

**Client Sample ID: B39KM7**  
Date Collected: 06/20/17 13:14  
Date Received: 06/21/17 12:25

**Lab Sample ID: 300-5685-3**  
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			8365	06/21/17 14:31	TP	TAL RCH

**Client Sample ID: B39KM6**  
Date Collected: 06/20/17 13:14  
Date Received: 06/21/17 12:25

**Lab Sample ID: 300-5685-4**  
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			8365	06/21/17 14:31	TP	TAL RCH

**Client Sample ID: Method Blank**  
Date Collected: N/A  
Date Received: N/A

**Lab Sample ID: MB 300-8365/3**  
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			8365	06/21/17 14:27	TP	TAL RCH

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

**Lab Sample ID: LCS 300-8365/4**  
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			8365	06/21/17 14:27	TP	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

**Client Sample ID: B39KN0**

**Lab Sample ID: 300-5685-1 MS**

**Date Collected: 06/20/17 13:05**

**Matrix: Water**

**Date Received: 06/21/17 12:25**

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			8365	06/21/17 14:27	TP	TAL RCH

**Laboratory References:**

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

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Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

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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



# July 6, 2017 Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-047

TestAmerica Job ID: 300-5685-1  
SDG: WC2125

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-5685-1	B39KN0	Water	06/20/17 13:05	06/21/17 12:25
300-5685-2	B39KM9	Water	06/20/17 13:05	06/21/17 12:25
300-5685-3	B39KM7	Water	06/20/17 13:14	06/21/17 12:25
300-5685-4	B39KM6	Water	06/20/17 13:14	06/21/17 12:25

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## Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-5685-1

SDG Number: WC2125

**Login Number: 5685**

**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	

