

June 30, 2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

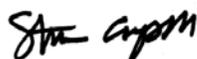
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Richland
2800 George Washington Way
Richland, WA 99352
Tel: (509)375-3131

TestAmerica Job ID: 300-3355-1
TestAmerica Sample Delivery Group: WC1202
Client Project/Site: F16-047

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

Attn: CPP Sample Management



Authorized for release by:
6/30/2016 4:58:00 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

- 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	7
Client Sample Results	8
QC Sample Results	9
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: F16-047

TestAmerica Job ID: 300-3355-1
 SDG: WC1202

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
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: F16-047

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Job ID: 300-3355-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative 300-3355-1

Comments

No additional comments.

Receipt

The samples were received on 6/27/2016 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.7° C.

HPLC/IC

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

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		F16-047-017	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, Effluent Tank, Valve V07-Y800	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micronutrient Analysis	FIELD LOGBOOK NO. HNF-N-49115	SAF NO. F16-047	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303111	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY 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/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	PRESERVATION	COOL <=6C	
		HOLDING TIME	24 Hours	
		TYPE OF CONTAINER	3G	
		NO. OF CONTAINER(S)	1	
		VOLUME	60mL	
		SAMPLE ANALYSIS	7196, CR6; COMMON;	
SAMPLE NO. B35W/F5	MATRIX* WATER	SAMPLE DATE JUN 27 2016	SAMPLE TIME 1220	V #3555 WELAD Dun-r-ave

FILTER



300-3355 COC

CHAIN OF POSSESSION		SIGN / PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM Kevin Patterson	DATE/TIME JUN 27 2016 1310	RECEIVED BY/STORED IN Janelle Zunker	DATE/TIME JUN 27 2016 1310	Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. FILTER	
RELINQUISHED BY/REMOVED FROM Janelle Zunker	DATE/TIME JUN 27 2016 1430	RECEIVED BY/STORED IN J. Beck, TBMN	DATE/TIME JUN 27 2016 1430		
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		

PRINTED ON 5/26/2016 FSR ID = FSR32752 TRVL NUM = TRVL-16-157 A-6003-618 (REV 2)

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

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST		F16-047-018	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 289-1J, Effluent Tank, Valve V07-Y80L	PROJECT DESIGNATION 200 West Pump & Treat - Fluidized Bed Reactor (FBR) Micro nutrient Analysis	FIELD LOGBOOK NO. HNF-N-49115	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-047	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	COA 303111	BILL OF LADING/AIR BILL NO. N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richard					

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. NA	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 250ml	SPECIAL HANDLING AND/OR STORAGE	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SAMPLE NO. B35WF6	MATRIX* WATER	SAMPLE DATE JUN 27 2016	SAMPLE TIME 1220					

FILTER

3355
wcl202

CHAIN OF POSSESSION **SIGN/ PRINT NAMES** **SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JUN 27 2016 1310	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUN 27 2016 1310	SPECIAL INSTRUCTIONS Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};	
RELINQUISHED BY/REMOVED FROM Janelle Zunker	DATE/TIME JUN 27 2016 1435	RECEIVED BY/STORED IN Janelle Zunker	DATE/TIME JUN 27 2016 1435	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 5/26/2016 FSR ID = FSR32752 TRVL NUM = TRVL-16-157 A-6003-618 (REV 2)

Detection Summary

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

TestAmerica Job ID: 300-3355-1
 SDG: WC1202

Client Sample ID: B35WF5

Lab Sample ID: 300-3355-1

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

Client Sample ID: B35WF6

Lab Sample ID: 300-3355-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	50	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	10	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.40	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.16	D	0.076	0.038	mg/L	2		300.0	Total/NA
Orthophosphate as P	0.26	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	66	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.



Client Sample Results

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

TestAmerica Job ID: 300-3355-1
 SDG: WC1202

Client Sample ID: B35WF5

Lab Sample ID: 300-3355-1

Date Collected: 06/27/16 12:20

Matrix: Water

Date Received: 06/27/16 14:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	B	0.0040	0.0015	mg/L			06/28/16 07:54	1

Client Sample ID: B35WF6

Lab Sample ID: 300-3355-2

Date Collected: 06/27/16 12:20

Matrix: Water

Date Received: 06/27/16 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50	D	0.40	0.20	mg/L			06/28/16 13:13	2
Nitrate as N	10	D	0.056	0.028	mg/L			06/28/16 13:13	2
Fluoride	0.40	D	0.10	0.050	mg/L			06/28/16 13:13	2
Nitrite as N	0.16	D	0.076	0.038	mg/L			06/28/16 13:13	2
Orthophosphate as P	0.26	D	0.16	0.082	mg/L			06/28/16 13:13	2
Sulfate	66	D	0.50	0.25	mg/L			06/28/16 13:13	2

QC Sample Results

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

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4703/5

Matrix: Water

Analysis Batch: 4703

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			06/28/16 11:35	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/28/16 11:35	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			06/28/16 11:35	1

Lab Sample ID: LCS 300-4703/6

Matrix: Water

Analysis Batch: 4703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.37		mg/L		105	80 - 120
Nitrite as N	3.04	3.18		mg/L		105	80 - 120
Orthophosphate as P	6.53	6.79		mg/L		104	80 - 120

Lab Sample ID: 300-3358-A-5 MS

Matrix: Water

Analysis Batch: 4703

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
Nitrate as N	5.3	D	0.452	5.70	D	mg/L		95	75 - 125
Nitrite as N	0.038	U D	0.609	0.523	D	mg/L		86	75 - 125
Orthophosphate as P	0.082	U D	1.31	1.10	D	mg/L		84	75 - 125

Lab Sample ID: 300-3358-A-5 DU

Matrix: Water

Analysis Batch: 4703

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.3	D	5.32	D	mg/L		1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20
Orthophosphate as P	0.082	U D	0.082	U D	mg/L		NC	20

Lab Sample ID: MB 300-4704/5

Matrix: Water

Analysis Batch: 4704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			06/28/16 11:35	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/28/16 11:35	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/28/16 11:35	1

Lab Sample ID: LCS 300-4704/6

Matrix: Water

Analysis Batch: 4704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.4		mg/L		103	80 - 120
Fluoride	4.00	4.11		mg/L		103	80 - 120
Sulfate	20.0	20.7		mg/L		103	80 - 120

QC Sample Results

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

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3358-A-5 MS
Matrix: Water
Analysis Batch: 4704

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limits	
Chloride	13	D	3.20	16.1	D	mg/L		98	75 - 125	
Fluoride	0.15	D	0.800	0.851	D	mg/L		88	75 - 125	
Sulfate	79	D	4.00	82.5	D	mg/L		90	75 - 125	

Lab Sample ID: 300-3358-A-5 DU
Matrix: Water
Analysis Batch: 4704

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Chloride	13	D	13.1	D	mg/L		1	20	
Fluoride	0.15	D	0.147	D	mg/L		0.7	20	
Sulfate	79	D	79.7	D	mg/L		1	20	

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4706/3
Matrix: Water
Analysis Batch: 4706

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/28/16 07:51	1

Lab Sample ID: LCS 300-4706/4
Matrix: Water
Analysis Batch: 4706

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier				Limits	
Cr (VI)	0.250	0.254		mg/L		102	80 - 120	

Lab Sample ID: 300-3355-1 MS
Matrix: Water
Analysis Batch: 4706

Client Sample ID: B35WF5
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limits	
Cr (VI)	0.0015	B	0.0499	0.0513		mg/L		100	75 - 125	

Lab Sample ID: 300-3355-1 DU
Matrix: Water
Analysis Batch: 4706

Client Sample ID: B35WF5
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Cr (VI)	0.0015	B	0.0015	U	mg/L		NC	20	

QC Association Summary

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

TestAmerica Job ID: 300-3355-1
 SDG: WC1202

HPLC/IC

Analysis Batch: 4703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3355-2	B35WF6	Total/NA	Water	300.0	
300-3358-A-5 DU	Duplicate	Total/NA	Water	300.0	
300-3358-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-4703/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4703/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3355-2	B35WF6	Total/NA	Water	300.0	
300-3358-A-5 DU	Duplicate	Total/NA	Water	300.0	
300-3358-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-4704/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4704/5	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3355-1	B35WF5	Total/NA	Water	7196A	
300-3355-1 DU	B35WF5	Total/NA	Water	7196A	
300-3355-1 MS	B35WF5	Total/NA	Water	7196A	
LCS 300-4706/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4706/3	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

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

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Client Sample ID: B35WF5

Date Collected: 06/27/16 12:20

Date Received: 06/27/16 14:30

Lab Sample ID: 300-3355-1

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			4706	06/28/16 07:54	RLC	TAL RCH

Client Sample ID: B35WF6

Date Collected: 06/27/16 12:20

Date Received: 06/27/16 14:30

Lab Sample ID: 300-3355-2

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	300.0		2	10 mL		4703	06/28/16 13:13	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4704	06/28/16 13:13	CPM	TAL RCH

Client Sample ID: B35WF5

Date Collected: 06/27/16 12:20

Date Received: 06/27/16 14:30

Lab Sample ID: 300-3355-1 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			4706	06/28/16 07:54	RLC	TAL RCH

Client Sample ID: Duplicate

Date Collected: 06/27/16 08:48

Date Received: 06/27/16 14:30

Lab Sample ID: 300-3358-A-5 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	300.0		2	10 mL		4703	06/28/16 12:43	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4704	06/28/16 12:43	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4703/6

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	300.0		1	10 mL		4703	06/28/16 11:57	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4704/6

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	300.0		1	10 mL		4704	06/28/16 11:57	CPM	TAL RCH

Lab Chronicle

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

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4706/4

Date Collected: N/A
Date Received: N/A

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			4706	06/28/16 07:51	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4703/5

Date Collected: N/A
Date Received: N/A

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	300.0		1	10 mL		4703	06/28/16 11:35	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4704/5

Date Collected: N/A
Date Received: N/A

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	300.0		1	10 mL		4704	06/28/16 11:35	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4706/3

Date Collected: N/A
Date Received: N/A

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			4706	06/28/16 07:51	RLC	TAL RCH

Client Sample ID: B35WF5

Lab Sample ID: 300-3355-1 MS

Date Collected: 06/27/16 12:20
Date Received: 06/27/16 14:30

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		3.0 mL	4706	06/28/16 07:51	RLC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3358-A-5 MS

Date Collected: 06/27/16 08:48
Date Received: 06/27/16 14:30

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	300.0		2	10 mL		4703	06/28/16 12:27	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4704	06/28/16 12:27	CPM	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: F16-047

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
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: F16-047

TestAmerica Job ID: 300-3355-1
SDG: WC1202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3355-1	B35WF5	Water	06/27/16 12:20	06/27/16 14:30
300-3355-2	B35WF6	Water	06/27/16 12:20	06/27/16 14:30

- 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: 300-3355-1

SDG Number: WC1202

Login Number: 3355

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	

