

July 7, 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: 300-5714-1
TestAmerica Sample Delivery Group: WC2138
Client Project/Site: S17-006

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

Attn: CPP Sample Management



Authorized for release by:
7/7/2017 9:08:09 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.



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

July 7, 2017

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

- 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	6
Detection Summary	9
Client Sample Results	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Method Summary	18
Sample Summary	19
Receipt Checklists	20

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
B	Estimated result. Result is less than the RL, but greater than MDL
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	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: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Job ID: 300-5714-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-5714-1**

Comments

No additional comments.

Receipt

The samples were received on 6/27/2017 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.7° 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

July 7, 2017

Nagel, Sarah

From: Loeber, Bob
Sent: Tuesday, July 21, 2015 2:22 PM
To: Nagel, Sarah
Subject: Direction on IC samples diverted to TARL from GEL

From: Fitzgerald, Scot L [mailto:Scot_L_Fitzgerald@rl.gov]
Sent: Tuesday, November 25, 2014 3:40 PM
To: Seger, Sandra
Cc: Fitzgerald, Scot L; Waters-husted, Karen S
Subject: Direction on IC samples diverted to TARL from GEL

Sandra,

This e-mail serves as a blanket instruction to allow Test America Richland to change the method from 9056_Anions_IC to 300.0_Anions_IC on all chains that are diverted from GEL laboratory.

Please place a copy of this e-mail in each affected data package. An individual SIR form will not be needed.

Scot Fitzgerald
Analytical Support Group
Soil & Groundwater Remediation Project (S&GRP)
Phone: (509) 373-7495



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S17-006-298

Page 1 of 1

Collector	<i>Bogert Frisco, Jr. KCHPRC</i>	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-006	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JUNE 2017	Logbook No.	HNF-N-506 <u>93 / 58</u>	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	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY		
*** 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		
			N/A		
			Hold Time		
			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
B39PJ2	N	W	6-27-17	0931	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B39PJ5	Y	W	6-27-17	0931	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

*LSM14
W02134*

Relinquished By	<i>Bogert Frisco, Jr. KCHPRC</i>	Print	Sign	Date/Time	Received By	<i>J. Bock, TARI</i>	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>			JUN 27 2017 11:50 AM	Received By	<i>[Signature]</i>			JUN 27 2017 11:50 AM	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>[Signature]</i>			JUN 27 2017 1415	Received By	<i>[Signature]</i>			JUN 27 2017 1415	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
Relinquished By	Date/Time	Received By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#

S17-006-297

Page 1 of 1

Collector	<i>Sageer Friesz Jr.</i> KADPBC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-006	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JUNE 2017	Logbook No.	HNF-N-506 <u>93 / 58</u>	Ice Chest No.	
Shipped To (Lab)	GEL Laboratories, INC. TARI	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	
Protocol	SURV	Priority:	30 Days	Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY	SPECIAL INSTRUCTIONS	Hold Time
*** 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				N/A	
					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
B39PJ3	N	W	6-27-17	0931	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

July 7, 2017

Relinquished By	<i>[Signature]</i>	Print	Sign	Date/Time	Received By	<i>[Signature]</i>	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>	<i>Sageer Friesz Jr.</i>	<i>[Signature]</i>	JUN 27 2017 1150	Received By	<i>[Signature]</i>	<i>J. Eckel, TARI</i>	<i>[Signature]</i>	JUN 27 2017 1158	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	JUN 27 2017 1150	Received By	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	JUN 27 2017 1158	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	JUN 27 2017 1150	Received By	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	JUN 27 2017 1158	

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

July 7, 2017 Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Client Sample ID: B39RF4

Lab Sample ID: 300-5714-1

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

Client Sample ID: B39RF1

Lab Sample ID: 300-5714-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0038	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39PJ2

Lab Sample ID: 300-5714-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.022		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39PJ5

Lab Sample ID: 300-5714-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.022		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B39PJ3

Lab Sample ID: 300-5714-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.4	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.15	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.074	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	190	D	2.5	1.3	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

July 7, 2017 Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Client Sample ID: B39RF4

Lab Sample ID: 300-5714-1

Date Collected: 06/27/17 10:55
Date Received: 06/27/17 14:15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0040		0.0040	0.0015	mg/L			06/27/17 16:12	1

Client Sample ID: B39RF1

Lab Sample ID: 300-5714-2

Date Collected: 06/27/17 10:55
Date Received: 06/27/17 14:15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0038	B	0.0040	0.0015	mg/L			06/27/17 16:13	1

Client Sample ID: B39PJ2

Lab Sample ID: 300-5714-3

Date Collected: 06/27/17 09:31
Date Received: 06/27/17 14:15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.022		0.0040	0.0015	mg/L			06/27/17 16:13	1

Client Sample ID: B39PJ5

Lab Sample ID: 300-5714-4

Date Collected: 06/27/17 09:31
Date Received: 06/27/17 14:15

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.022		0.0040	0.0015	mg/L			06/27/17 16:13	1

Client Sample ID: B39PJ3

Lab Sample ID: 300-5714-5

Date Collected: 06/27/17 09:31
Date Received: 06/27/17 14:15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			06/27/17 16:55	2
Nitrate as N	5.4	D	0.056	0.028	mg/L			06/27/17 16:55	2
Fluoride	0.15	D	0.10	0.050	mg/L			06/27/17 16:55	2
Nitrite as N	0.074	B D	0.076	0.038	mg/L			06/27/17 16:55	2
Sulfate	190	D	2.5	1.3	mg/L			06/27/17 17:55	10

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-8415/5
Matrix: Water
Analysis Batch: 8415

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			06/27/17 16:25	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/27/17 16:25	1

Lab Sample ID: LCS 300-8415/6
Matrix: Water
Analysis Batch: 8415

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	2.17		mg/L		96	80 - 120
Nitrite as N	3.04	3.11		mg/L		102	80 - 120

Lab Sample ID: 300-5714-5 MS
Matrix: Water
Analysis Batch: 8415

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.4	D	0.452	5.76	D	mg/L		83	75 - 125
Nitrite as N	0.074	B D	0.609	0.548	D	mg/L		78	75 - 125

Lab Sample ID: 300-5714-5 DU
Matrix: Water
Analysis Batch: 8415

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.4	D	5.32	D	mg/L		1	20
Nitrite as N	0.074	B D	0.0740	B D	mg/L		0.3	20

Lab Sample ID: MB 300-8416/5
Matrix: Water
Analysis Batch: 8416

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			06/27/17 16:25	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/27/17 16:25	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/27/17 16:25	1

Lab Sample ID: LCS 300-8416/6
Matrix: Water
Analysis Batch: 8416

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	15.9		mg/L		99	80 - 120
Fluoride	4.00	3.93		mg/L		98	80 - 120
Sulfate	20.0	19.7		mg/L		98	80 - 120

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-5714-5 MS
Matrix: Water
Analysis Batch: 8416

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	17	D	3.20	19.8	D	mg/L		93	75 - 125
Fluoride	0.15	D	0.800	0.820	D	mg/L		84	75 - 125

Lab Sample ID: 300-5714-5 MS
Matrix: Water
Analysis Batch: 8416

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	190	D	20.0	209	D	mg/L		91	75 - 125

Lab Sample ID: 300-5714-5 DU
Matrix: Water
Analysis Batch: 8416

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	17	D	16.6	D	mg/L		1	20
Fluoride	0.15	D	0.147	D	mg/L		1	20

Lab Sample ID: 300-5714-5 DU
Matrix: Water
Analysis Batch: 8416

Client Sample ID: B39PJ3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	190	D	186	D	mg/L		3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-8424/3
Matrix: Water
Analysis Batch: 8424

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			06/27/17 16:08	1

Lab Sample ID: LCS 300-8424/4
Matrix: Water
Analysis Batch: 8424

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	0.257		mg/L		103	80 - 120

Lab Sample ID: 300-5713-A-1 MS
Matrix: Water
Analysis Batch: 8424

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)	0.054		0.0501	0.106		mg/L		104	75 - 125

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 300-5713-A-1 DU
Matrix: Water
Analysis Batch: 8424

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.054		0.0542		mg/L		1	20

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

July 7, 2017
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

HPLC/IC

Analysis Batch: 8415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5714-5	B39PJ3	Total/NA	Water	300.0	
MB 300-8415/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8415/6	Lab Control Sample	Total/NA	Water	300.0	
300-5714-5 MS	B39PJ3	Total/NA	Water	300.0	
300-5714-5 DU	B39PJ3	Total/NA	Water	300.0	

Analysis Batch: 8416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5714-5	B39PJ3	Total/NA	Water	300.0	
300-5714-5	B39PJ3	Total/NA	Water	300.0	
MB 300-8416/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8416/6	Lab Control Sample	Total/NA	Water	300.0	
300-5714-5 MS	B39PJ3	Total/NA	Water	300.0	
300-5714-5 MS	B39PJ3	Total/NA	Water	300.0	
300-5714-5 DU	B39PJ3	Total/NA	Water	300.0	
300-5714-5 DU	B39PJ3	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 8424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5714-1	B39RF4	Total/NA	Water	7196A	
300-5714-2	B39RF1	Total/NA	Water	7196A	
300-5714-3	B39PJ2	Total/NA	Water	7196A	
300-5714-4	B39PJ5	Total/NA	Water	7196A	
MB 300-8424/3	Method Blank	Total/NA	Water	7196A	
LCS 300-8424/4	Lab Control Sample	Total/NA	Water	7196A	
300-5713-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-5713-A-1 DU	Duplicate	Total/NA	Water	7196A	



Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Client Sample ID: B39RF4

Date Collected: 06/27/17 10:55

Date Received: 06/27/17 14:15

Lab Sample ID: 300-5714-1

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			8424	06/27/17 16:12	HR	TAL RCH

Client Sample ID: B39RF1

Date Collected: 06/27/17 10:55

Date Received: 06/27/17 14:15

Lab Sample ID: 300-5714-2

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			8424	06/27/17 16:13	HR	TAL RCH

Client Sample ID: B39PJ2

Date Collected: 06/27/17 09:31

Date Received: 06/27/17 14:15

Lab Sample ID: 300-5714-3

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			8424	06/27/17 16:13	HR	TAL RCH

Client Sample ID: B39PJ5

Date Collected: 06/27/17 09:31

Date Received: 06/27/17 14:15

Lab Sample ID: 300-5714-4

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			8424	06/27/17 16:13	HR	TAL RCH

Client Sample ID: B39PJ3

Date Collected: 06/27/17 09:31

Date Received: 06/27/17 14:15

Lab Sample ID: 300-5714-5

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	300.0		2			8415	06/27/17 16:55	DRM	TAL RCH
Total/NA	Analysis	300.0		2			8416	06/27/17 16:55	DRM	TAL RCH
Total/NA	Analysis	300.0		10			8416	06/27/17 17:55	DRM	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-8415/5

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	300.0		1			8415	06/27/17 16:25	DRM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Client Sample ID: Method Blank

Lab Sample ID: MB 300-8416/5

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	300.0		1			8416	06/27/17 16:25	DRM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-8424/3

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			8424	06/27/17 16:08	HR	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8415/6

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	300.0		1			8415	06/27/17 16:40	DRM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8416/6

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	300.0		1			8416	06/27/17 16:40	DRM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8424/4

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			8424	06/27/17 16:08	HR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-5713-A-1 MS

Date Collected: 06/27/17 08:40

Matrix: Water

Date Received: 06/27/17 14:15

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			8424	06/27/17 16:09	HR	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Client Sample ID: B39PJ3

Lab Sample ID: 300-5714-5 MS

Date Collected: 06/27/17 09:31

Matrix: Water

Date Received: 06/27/17 14:15

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			8415	06/27/17 17:10	DRM	TAL RCH
Total/NA	Analysis	300.0		2			8416	06/27/17 17:10	DRM	TAL RCH
Total/NA	Analysis	300.0		10			8416	06/27/17 18:10	DRM	TAL RCH

Laboratory References:

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

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

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

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



July 7, 2017 Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S17-006

TestAmerica Job ID: 300-5714-1
SDG: WC2138

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-5714-1	B39RF4	Water	06/27/17 10:55	06/27/17 14:15
300-5714-2	B39RF1	Water	06/27/17 10:55	06/27/17 14:15
300-5714-3	B39PJ2	Water	06/27/17 09:31	06/27/17 14:15
300-5714-4	B39PJ5	Water	06/27/17 09:31	06/27/17 14:15
300-5714-5	B39PJ3	Water	06/27/17 09:31	06/27/17 14:15

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

July 7, 2017

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-5714-1

SDG Number: WC2138

Login Number: 5714

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	

