

July 5, 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: 300-5703-1
TestAmerica Sample Delivery Group: WC2132
Client Project/Site: I17-008

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

Attn: CPP Sample Management



Authorized for release by:
7/5/2017 8:48:25 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.



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July 5, 2017

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132



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Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 5X$ the blank concentration.
B	Estimated result. Result is less than the RL, but greater than MDL

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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: I17-008

TestAmerica Job ID: 300-5703-1
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Job ID: 300-5703-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-5703-1**

Comments

No additional comments.

Receipt

The samples were received on 6/23/2017 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.7° C.

HPLC/IC

Method 300.0: The method blank in analytical batch 8388 contained Fluoride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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July 5, 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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
I17-008-132
Page 1 of 1

Collector	Roger Friess Jr. CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650		
SAF No.	I17-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071		
Project Title	100-NR-2 GW-OU Monitoring Apatite B	Logbook No.	HNF-N-506 93/56	Ice Chest No.	N/A		
Shipped To (Lab)	GET Laboratories, LLC 26-22-17	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	N/A		
Protocol	CERCLA	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				
			Hold Time				
			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
B39M42	N	W JUN 22 2017	1045	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

July 5, 2017

SN03
Wt 2132



Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Roger Friess Jr. CHPRC			JUN 22 2017 1430	SSU-1			JUN 22 2017 1430	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			JUN 23 2017 0715	Janelle Zanker CHPRC			JUN 23 2017 0715	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By			JUN 23 2017	A. Rogers, TARL			JUN 23 2017	
FINAL SAMPLE DISPOSITION								
Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By				

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
117-008-151
Page 1 of 1

Collector	Roger Friesz Jr. /CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	117-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100-NR-2 GW-OU Monitoring Apatite B	Logbook No.	HNF-N-506 43 / 56	Ice Chest No.	D1A
Shipped To (Lab)	GEL Laboratories, THE TARC	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	D1A
Protocol	CERCLA	Priority:	30 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			Hold Time		
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sample No.	Filter	*	Date	Time	No/Type Container
B39M95	N	W	JUN 22 2017	1323	1x125-mL G/P
			Sample Analysis		
			9056_ANIONS_IC: COMMON		
			Holding Time		
			48 Hours		
			Preservative		
			Cool <=6C		

July 5, 2017

W 5N03
W 2133

Reinquinshed By	<i>[Signature]</i> Roger Friesz Jr. /CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Reinquinshed By	<i>[Signature]</i>			JUN 22 2017 1430	SSU-1			JUN 22 2017 1430	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquinshed By	<i>[Signature]</i>			JUN 23 2017 0715	Jamelle Zunker CHPRC			JUN 23 2017 0715	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Reinquinshed By	<i>[Signature]</i>			JUN 23 2017 1020	A. Rogers, TARI CHPRC			JUN 23 2017 1020	
FINAL SAMPLE DISPOSITION									
Disposal Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By				



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
117-008-134
Page 1 of 1

Collector	Roger Friesz Jr. <small>GFPRC</small>	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	117-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100-NR-2 GW-OU Monitoring Apatite B	Logbook No.	HNF-N-506 43 / 56	Ice Chest No.	N/A
Shipped To (Lab)	GFL Laboratories, LLC 77ARL 622-17	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	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		
			Hold Time		
			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
B39M43	N	W	JUN 22 2017	1235	1x125-mL G/P	9056_ANIONS_IC: COMMON	48 Hours	Cool <=6C

July 5, 2017

5903
WV 2132

Relinquished By	Roger Friesz Jr. <small>GFPRC</small>	Print	Sign	Date/Time	Received By	SSU-1	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>			JUN 22 2017 1430	Received By	<i>[Signature]</i>			JUN 22 2017 1430	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	SSU-1			JUN 23 2017 6715	Received By	Janelle Zunker <small>CHPRC</small>			JUN 23 2017 0715	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	Janelle Zunker <small>CHPRC</small>			JUN 23 2017 1020	Received By	A. Rogers <small>TARL</small>			JUN 23 2017 1020	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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July 5, 2017 Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Client Sample ID: B39M42

Lab Sample ID: 300-5703-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.76	D	0.40	0.20	mg/L	2		300.0	Total/NA

Client Sample ID: B39M95

Lab Sample ID: 300-5703-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.75	D	0.056	0.028	mg/L	2		300.0	Total/NA
Sulfate	8.2	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B39M43

Lab Sample ID: 300-5703-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	2.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.13	D C	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	9.9	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

July 5, 2017 Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Client Sample ID: B39M42

Lab Sample ID: 300-5703-1

Date Collected: 06/22/17 10:45

Matrix: Water

Date Received: 06/23/17 10:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.76	D	0.40	0.20	mg/L			06/23/17 17:44	2
Nitrate as N	0.028	U D	0.056	0.028	mg/L			06/23/17 17:44	2
Fluoride	0.050	U D	0.10	0.050	mg/L			06/23/17 17:44	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/23/17 17:44	2
Sulfate	0.25	U D	0.50	0.25	mg/L			06/23/17 17:44	2

Client Sample ID: B39M95

Lab Sample ID: 300-5703-2

Date Collected: 06/22/17 13:23

Matrix: Water

Date Received: 06/23/17 10:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	D	0.40	0.20	mg/L			06/23/17 17:59	2
Nitrate as N	0.75	D	0.056	0.028	mg/L			06/23/17 17:59	2
Fluoride	0.050	U D	0.10	0.050	mg/L			06/23/17 17:59	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/23/17 17:59	2
Sulfate	8.2	D	0.50	0.25	mg/L			06/23/17 17:59	2

Client Sample ID: B39M43

Lab Sample ID: 300-5703-3

Date Collected: 06/22/17 12:35

Matrix: Water

Date Received: 06/23/17 10:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	0.40	0.20	mg/L			06/23/17 18:14	2
Nitrate as N	2.6	D	0.056	0.028	mg/L			06/23/17 18:14	2
Fluoride	0.13	D C	0.10	0.050	mg/L			06/23/17 18:14	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/23/17 18:14	2
Sulfate	9.9	D	0.50	0.25	mg/L			06/23/17 18:14	2

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-8387/5
Matrix: Water
Analysis Batch: 8387

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			06/23/17 15:59	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/23/17 15:59	1

Lab Sample ID: LCS 300-8387/6
Matrix: Water
Analysis Batch: 8387

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	2.32		mg/L		103	80 - 120
Nitrite as N	3.04	3.15		mg/L		104	80 - 120

Lab Sample ID: 300-5700-A-6 MS
Matrix: Water
Analysis Batch: 8387

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	2.7	D	0.452	3.19	D	mg/L		108	75 - 125
Nitrite as N	0.038	U D	0.609	0.577	D	mg/L		95	75 - 125

Lab Sample ID: 300-5700-A-6 DU
Matrix: Water
Analysis Batch: 8387

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	2.7	D	2.66	D	mg/L		2	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-8388/5
Matrix: Water
Analysis Batch: 8388

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			06/23/17 15:59	1
Fluoride	0.0278	B	0.050	0.025	mg/L			06/23/17 15:59	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/23/17 15:59	1

Lab Sample ID: LCS 300-8388/6
Matrix: Water
Analysis Batch: 8388

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	16.2		mg/L		101	80 - 120
Fluoride	4.00	4.09		mg/L		102	80 - 120
Sulfate	20.0	20.4		mg/L		102	80 - 120

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-5700-A-6 MS

Matrix: Water

Analysis Batch: 8388

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	6.9	D	3.20	10.2	D	mg/L		104	75 - 125	
Fluoride	0.38	D	0.800	1.17	D	mg/L		99	75 - 125	
Sulfate	26	D	4.00	30.4	D	mg/L		101	75 - 125	

Lab Sample ID: 300-5700-A-6 DU

Matrix: Water

Analysis Batch: 8388

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	6.9	D	6.80	D	mg/L		1	20	
Fluoride	0.38	D	0.367	D	mg/L		2	20	
Sulfate	26	D	26.0	D	mg/L		2	20	

July 5, 2017
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
 SDG: WC2132

HPLC/IC

Analysis Batch: 8387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5703-1	B39M42	Total/NA	Water	300.0	
300-5703-2	B39M95	Total/NA	Water	300.0	
300-5703-3	B39M43	Total/NA	Water	300.0	
MB 300-8387/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8387/6	Lab Control Sample	Total/NA	Water	300.0	
300-5700-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
300-5700-A-6 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 8388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5703-1	B39M42	Total/NA	Water	300.0	
300-5703-2	B39M95	Total/NA	Water	300.0	
300-5703-3	B39M43	Total/NA	Water	300.0	
MB 300-8388/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8388/6	Lab Control Sample	Total/NA	Water	300.0	
300-5700-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
300-5700-A-6 DU	Duplicate	Total/NA	Water	300.0	

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Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Client Sample ID: B39M42

Date Collected: 06/22/17 10:45

Date Received: 06/23/17 10:20

Lab Sample ID: 300-5703-1

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	300.0		2			8387	06/23/17 17:44	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8388	06/23/17 17:44	ALR	TAL RCH

Client Sample ID: B39M95

Date Collected: 06/22/17 13:23

Date Received: 06/23/17 10:20

Lab Sample ID: 300-5703-2

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			8387	06/23/17 17:59	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8388	06/23/17 17:59	ALR	TAL RCH

Client Sample ID: B39M43

Date Collected: 06/22/17 12:35

Date Received: 06/23/17 10:20

Lab Sample ID: 300-5703-3

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	300.0		2			8387	06/23/17 18:14	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8388	06/23/17 18:14	ALR	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-8387/5

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			8387	06/23/17 15:59	ALR	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-8388/5

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			8388	06/23/17 15:59	ALR	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-8387/6

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			8387	06/23/17 16:14	ALR	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8388/6

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			8388	06/23/17 16:14	ALR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-5700-A-6 MS

Date Collected: 06/23/17 09:02

Matrix: Water

Date Received: 06/23/17 10:20

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			8387	06/23/17 16:44	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8388	06/23/17 16:44	ALR	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: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

Protocol References:

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

Laboratory References:

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



July 5, 2017 Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I17-008

TestAmerica Job ID: 300-5703-1
SDG: WC2132

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-5703-1	B39M42	Water	06/22/17 10:45	06/23/17 10:20
300-5703-2	B39M95	Water	06/22/17 13:23	06/23/17 10:20
300-5703-3	B39M43	Water	06/22/17 12:35	06/23/17 10:20

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July 5, 2017

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-5703-1

SDG Number: WC2132

Login Number: 5703

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	

