

# 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: 300-4932-1  
TestAmerica Sample Delivery Group: WC1876  
Client Project/Site: S17-002

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

Attn: CPP Sample Management



Authorized for release by:  
2/17/2017 10:36:21 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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## Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

## 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
X	See case narrative notes for explanation of the 'X' flag
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: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

**Job ID: 300-4932-1**

**Laboratory: TestAmerica Richland**

**Narrative**

**Job Narrative  
300-4932-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/7/2017 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

**HPLC/IC**

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

An X flag indicates that the associated sample result exceeds four times the amount spiked into the MS sample for a given analyte.

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S17-002-363  
Page 1 of 1

Collector	Dave Floyd CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	CERCLA, FEBRUARY 2017	Logbook No.	HNF-N-506 <u>8991</u>	Ice Chest No.	N/A
Shipped To (Lab)	Test/America Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>PRIORITY</b>		
*** 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		
Sample No.	B38FB9	Filter	N	Date	FEB 07 2017 8 215
		* Date		Time	
		No/Type Container	1X125-ml P	Sample Analysis	300.0 ANIONS_IC: COMMON
		Holding Time	48 Hours	Preservative	Cool <=6C

44932  
WJG19114



300-4932 COC

Relinquished By	Dave Floyd CHPRC	Print	Sign	Date/Time	1/20	Received By	Frank Hall ACHPRC	Print	Sign	Date/Time	1/20	Matrix *
Relinquished By	Frank Hall ACHPRC	Print	Sign	Date/Time	FEB 07 2017	Received By	J. Bock, TARL	Print	Sign	Date/Time	FEB 07 2017	S = Soil
Relinquished By		Print	Sign	Date/Time	FEB 07 2017	Received By		Print	Sign	Date/Time	FEB 07 2017	SE = Sediment
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SO = Solid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SL = Sludge
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		W = Water
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		O = Oil
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		A = Air
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DS = Drum Solids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DL = Drum Liquids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		T = Tissue
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		WT = Wipe
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		L = Liquid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		V = Vegetation
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		X = Other
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)										Date/Time	



**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #

**S17-002-364**

Page 1 of 1

Collector	Dave Floyd CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	CERCLA, FEBRUARY 2017	Logbook No.	HNF-N-506 <i>88/87</i>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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		
Sample No.	B38FC0	Filter	N	Date	FEB 07 2017 / 0940
No./Type Container	1x125-mL P	Sample Analysis	300.0_ANIONS_IC: COMMON		
Holding Time	48 Hours	Preservative	Cool <=6C		

*4932  
w/1816*

Relinquished By	Dave Floyd CHPRC	Print	Sign	Date/Time	1/20/17	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	1/20/17	Matrix *
Relinquished By	Frank Hall CHPRC	Print	Sign	Date/Time	1/30/17	Received By	J. Bock, TARL	Print	Sign	Date/Time	3/10/17	S = Soil
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SE = Sediment
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SO = Solid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SL = Sludge
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		W = Water
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		O = Oil
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		A = Air
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DS = Drum Solids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DL = Drum Liquids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		T = Tissue
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		WI = Wipe
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		L = Liquid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		V = Vegetation
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		X = Other
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By		Date/Time				

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
**S17-002-362**  
Page 1 of 1

Collector	Dave Floyd CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S17-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	CERCLA, FEBRUARY 2017	Logbook No.	HNF-N-506 <u>85 / 81</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	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>PRIORITY</b>		<b>Total Activity Exemption:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1					
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis
B38FB5	N	W	FFR 07 2017 / 123	1x125-ml P	300.0 ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

2/17/2017

4932  
W21814

Relinquished By	Dave Floyd CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>[Signature]</i>			FEB 07 2017	<i>[Signature]</i>			FEB 07 2017	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>[Signature]</i>			FEB 07 2017	J. Bock, TARL			FEB 07 2017	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By									
FINAL SAMPLE DISPOSITION									
Disposal Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By				
Date/Time									

PRINTED ON 12/29/2016

FSR ID = FSR40644

A-6004-842 (REV 2)

## Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

## Client Sample ID: B38FB9

Lab Sample ID: 300-4932-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.067	D	0.056	0.028	mg/L	2		300.0	Total/NA

## Client Sample ID: B38FC0

Lab Sample ID: 300-4932-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.3	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.27	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.063	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	24	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B38FB5

Lab Sample ID: 300-4932-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.9	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.25	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	68	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

## Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

**Client Sample ID: B38FB9**

**Lab Sample ID: 300-4932-1**

Date Collected: 02/07/17 07:15

Matrix: Water

Date Received: 02/07/17 13:10

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U D	0.40	0.20	mg/L			02/07/17 21:32	2
<b>Nitrate as N</b>	<b>0.067</b>	<b>D</b>	0.056	0.028	mg/L			02/07/17 21:32	2
Fluoride	0.050	U D	0.10	0.050	mg/L			02/07/17 21:32	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			02/07/17 21:32	2
Sulfate	0.25	U D	0.50	0.25	mg/L			02/07/17 21:32	2

**Client Sample ID: B38FC0**

**Lab Sample ID: 300-4932-2**

Date Collected: 02/07/17 10:40

Matrix: Water

Date Received: 02/07/17 13:10

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20	D	0.40	0.20	mg/L			02/07/17 21:47	2
<b>Nitrate as N</b>	<b>6.3</b>	<b>D</b>	0.056	0.028	mg/L			02/07/17 21:47	2
Fluoride	0.27	D	0.10	0.050	mg/L			02/07/17 21:47	2
<b>Nitrite as N</b>	<b>0.063</b>	<b>B D</b>	0.076	0.038	mg/L			02/07/17 21:47	2
Sulfate	24	D	0.50	0.25	mg/L			02/07/17 21:47	2

**Client Sample ID: B38FB5**

**Lab Sample ID: 300-4932-3**

Date Collected: 02/07/17 11:23

Matrix: Water

Date Received: 02/07/17 13:10

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37	D	0.40	0.20	mg/L			02/07/17 22:32	2
<b>Nitrate as N</b>	<b>5.9</b>	<b>D</b>	0.056	0.028	mg/L			02/07/17 22:32	2
Fluoride	0.25	D	0.10	0.050	mg/L			02/07/17 22:32	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			02/07/17 22:32	2
<b>Sulfate</b>	<b>68</b>	<b>D</b>	0.50	0.25	mg/L			02/07/17 22:32	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
 SDG: WC1876

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-7112/15

Matrix: Water

Analysis Batch: 7112

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			02/07/17 19:31	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			02/07/17 19:31	1

Lab Sample ID: LCS 300-7112/16

Matrix: Water

Analysis Batch: 7112

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	3.17		mg/L		104	80 - 120

Lab Sample ID: 300-4931-A-5 MS

Matrix: Water

Analysis Batch: 7112

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	6.5	D	0.452	6.96	D X	mg/L		93	75 - 125
Nitrite as N	0.053	B D	0.609	0.516	D	mg/L		76	75 - 125

Lab Sample ID: 300-4931-A-5 DU

Matrix: Water

Analysis Batch: 7112

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	6.5	D	6.48	D	mg/L		0.9	20
Nitrite as N	0.053	B D	0.0554	B D	mg/L		5	20

Lab Sample ID: MB 300-7113/15

Matrix: Water

Analysis Batch: 7113

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			02/07/17 19:31	1
Fluoride	0.025	U	0.050	0.025	mg/L			02/07/17 19:31	1
Sulfate	0.13	U	0.25	0.13	mg/L			02/07/17 19:31	1

Lab Sample ID: LCS 300-7113/16

Matrix: Water

Analysis Batch: 7113

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	16.3		mg/L		102	80 - 120
Fluoride	4.00	4.13		mg/L		103	80 - 120
Sulfate	20.0	20.5		mg/L		103	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
 SDG: WC1876

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-4931-A-5 MS

Matrix: Water

Analysis Batch: 7113

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	12	D	3.20	15.1	D	mg/L		94	75 - 125	
Fluoride	0.16	D	0.800	0.848	D	mg/L		86	75 - 125	
Sulfate	53	D	4.00	57.3	D X	mg/L		102	75 - 125	

Lab Sample ID: 300-4931-A-5 DU

Matrix: Water

Analysis Batch: 7113

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	12	D	12.0	D	mg/L		0.7	20	
Fluoride	0.16	D	0.155	D	mg/L		0.7	20	
Sulfate	53	D	53.1	D	mg/L		0.2	20	

## QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
 SDG: WC1876

## HPLC/IC

## Analysis Batch: 7112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-4932-1	B38FB9	Total/NA	Water	300.0	
300-4932-2	B38FC0	Total/NA	Water	300.0	
300-4932-3	B38FB5	Total/NA	Water	300.0	
MB 300-7112/15	Method Blank	Total/NA	Water	300.0	
LCS 300-7112/16	Lab Control Sample	Total/NA	Water	300.0	
300-4931-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
300-4931-A-5 DU	Duplicate	Total/NA	Water	300.0	

## Analysis Batch: 7113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-4932-1	B38FB9	Total/NA	Water	300.0	
300-4932-2	B38FC0	Total/NA	Water	300.0	
300-4932-3	B38FB5	Total/NA	Water	300.0	
MB 300-7113/15	Method Blank	Total/NA	Water	300.0	
LCS 300-7113/16	Lab Control Sample	Total/NA	Water	300.0	
300-4931-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
300-4931-A-5 DU	Duplicate	Total/NA	Water	300.0	

## Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

## Client Sample ID: B38FB9

Date Collected: 02/07/17 07:15

Date Received: 02/07/17 13:10

## Lab Sample ID: 300-4932-1

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			7112	02/07/17 21:32	ALR	TAL RCH
Total/NA	Analysis	300.0		2			7113	02/07/17 21:32	ALR	TAL RCH

## Client Sample ID: B38FC0

Date Collected: 02/07/17 10:40

Date Received: 02/07/17 13:10

## Lab Sample ID: 300-4932-2

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			7112	02/07/17 21:47	ALR	TAL RCH
Total/NA	Analysis	300.0		2			7113	02/07/17 21:47	ALR	TAL RCH

## Client Sample ID: B38FB5

Date Collected: 02/07/17 11:23

Date Received: 02/07/17 13:10

## Lab Sample ID: 300-4932-3

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			7112	02/07/17 22:32	ALR	TAL RCH
Total/NA	Analysis	300.0		2			7113	02/07/17 22:32	ALR	TAL RCH

## Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

## Lab Sample ID: MB 300-7112/15

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			7112	02/07/17 19:31	ALR	TAL RCH

## Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

## Lab Sample ID: MB 300-7113/15

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			7113	02/07/17 19:31	ALR	TAL RCH

## Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

## Lab Sample ID: LCS 300-7112/16

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			7112	02/07/17 19:46	ALR	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
 SDG: WC1876

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-7113/16

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			7113	02/07/17 19:46	ALR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-4931-A-5 MS

Date Collected: 02/07/17 08:52

Matrix: Water

Date Received: 02/07/17 13:10

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			7112	02/07/17 20:16	ALR	TAL RCH
Total/NA	Analysis	300.0		2			7113	02/07/17 20:16	ALR	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: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

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

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### Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S17-002

TestAmerica Job ID: 300-4932-1  
SDG: WC1876

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-4932-1	B38FB9	Water	02/07/17 07:15	02/07/17 13:10
300-4932-2	B38FC0	Water	02/07/17 10:40	02/07/17 13:10
300-4932-3	B38FB5	Water	02/07/17 11:23	02/07/17 13:10

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## Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-4932-1

SDG Number: WC1876

Login Number: 4932

List Number: 1

Creator: Bock, Julie A

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	