

02/16/2018

REV.0

# 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: 300-6757-1  
TestAmerica Sample Delivery Group: WC2695  
Client Project/Site: X18-025

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

Attn: CPP Sample Management



Authorized for release by:  
2/16/2018 4:24:40 PM

Ashley Worthy, Project Manager I  
(509)375-3131  
[ashley.worthy@testamericainc.com](mailto:ashley.worthy@testamericainc.com)



### LINKS

Review your project results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.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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Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
 SDG: WC2695

**Qualifiers**

**HPLC/IC**

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

**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: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

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**Job ID: 300-6757-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative  
300-6757-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/1/2018 1:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6° C.

**HPLC/IC**

Method(s) 300.0: The low level check standard recovery associated with batch 300-10368 is outside the acceptance criteria for the following analyte(s): Sulfate  
All other QC is in, data accepted.

Method(s) 300.0: The closing continuing calibration verification (CCVC) associated with batch 300-10367 recovered below control limit for Nitrate as N. The samples associated with this CCV are listed. The data have been reported for client evaluation.

Method(s) 300.0: Nitrate as N - The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 300-10367 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 300.0: The continuing calibration verification (CCV) associated with batch 300-10367 recovered below the lower control limit for Nitrate as N. The data have been reported for client evaluation. The following samples are impacted: B3HM46 (300-6757-1), B3HM19 (300-6757-2), B3HM37 (300-6757-3), (CCV 300-10367/27), (300-6757-A-3 DU) and (300-6757-A-3 MS).

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



<b>SAMPLE ISSUE RESOLUTION (SIR) REPORT</b>		SIR Number: SIR18-0464
		Rev. Number: 0
		Date Initiated: 02/08/2018
<b><u>SAMPLE EVENT INFORMATION</u></b>		
SAF NUM(S):	X18-025	
LABORATORY:	TARL	
<b><u>SAMPLING INFORMATION</u></b>		
NUMBER OF SAMPLES:	3	
SAMPLE NUMBERS:	B3HM19, B3HM37, B3HM46	
SAMPLE MATRIX:	WATER	
SDG NUM(S):	WC2695	
<b><u>ISSUE BACKGROUND</u></b>		
CLASS:	Laboratory Issue	
TYPE:	Instrument Failure/Facility Outage	
DESCRIPTION:	The samples were put on the instrument to run overnight 02/02 into the weekend. The data was reviewed on Monday 02/05. Two CCVs failed low (89% and 88.6%) for Nitrate as N. The instrument was not able to pass daily instrument checks on Monday so the samples were not rerun within 2x hold.	
<b><u>RESOLUTION</u></b>		
PROPOSED RESOLUTION:	Initiate SIR, report first run results in hold time with low CCVs and include comments in the case narrative.	
FINAL RESOLUTION:	Please report the results with a flag to read the case narrative (e.g. X, Y or Z) and note in the narrative.	
SUBMITTED BY:		
WORTHY, A	02/08/2018	
ACCEPTED BY:		
MEDLEY, HA	02/12/2018	

CH2MHill Plateau  
Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#  
X18-025-037  
Page 1 of 1

Collector: **Malcom Chum** / **CH2M**      Contact/Requester: Karen Waters-Husted      Telephone No.: 509-376-4650

SAF No.: X18-025      Sampling Origin: Hanford Site      Purchase Order/Charge Code: 300071

Project Title: WMA S-SX, RESAMPLE, JANUARY 22      Logbook No.: HNF-N-506-97-57

Shipped To (Lab): **TestAmerica Incorporated, Rich**      Method of Shipment: GOVERNMENT VEHICLE      Bill of Lading/Air Bill No.: N/A

Protocol: RCRA      Priority: 15 Days      PRIORITY      Offsite Property No.: N/A

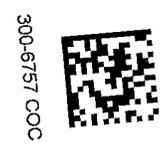
**POSSIBLE SAMPLE HAZARDS/REMARK**  
 \*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

**SPECIAL INSTRUCTIONS**  
N/A

Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HM46	N	2-1-18	0905	1X125-mL P	300.0_ANTONS_IC: COMMON	48 Hours	COOL <=6C

02/16/2018

WCONS  
WOC2095



Relinquished By: **MCCL**      FEB 01 2018 1100      Received By: **Jeff Lucas** / **CH2M**      FEB 01 2018 1100

Print First and Last Name: **Malcom Chum**      Signature      Date/Time      Print First and Last Name: **Jeff Lucas** / **CH2M**      Signature      Date/Time

Relinquished By: **Jeff Lucas** / **CH2M**      FEB 01 2018 1335      Received By: **J. Bock, TARI**      FEB 01 2018 1335

Print First and Last Name: **Jeff Lucas** / **CH2M**      Signature      Date/Time      Print First and Last Name: **J. Bock, TARI**      Signature      Date/Time

Relinquished By: \_\_\_\_\_      Signature      Date/Time      Received By: \_\_\_\_\_      Signature      Date/Time

Relinquished By: \_\_\_\_\_      Signature      Date/Time      Received By: \_\_\_\_\_      Signature      Date/Time

Print First and Last Name: \_\_\_\_\_      Signature      Date/Time      Print First and Last Name: \_\_\_\_\_      Signature      Date/Time

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

Matrix \*  
 S = Soil      DS = Drum Solids  
 SE = Sediment      DL = Drum Liquid  
 SO = Solid      T = Tissue  
 SL = Sludge      WI = Wipe  
 W = Water      L = Liquid  
 O = Oil      V = Vegetation  
 A = Air      X = Other



**CH2MHill Plateau  
Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**X18-025-032**  
Page 1 of 1

**Collector:** Malcom Chamm  
**SAF No.:** X18-025  
**Project Title:** WMA S-SX, RESAMPLE, JANUARY 22  
**Shipped To (Lab):** TestAmerica Incorporated, Rich  
**Protocol:** RCRA  
**Contact/Requester:** Karen Waters-Husted  
**Sampling Origin:** Hanford Site  
**Logbook No.:** HNF-N-506-9757  
**Method of Shipment:** GOVERNMENT VEHICLE  
**Priority:** 15 Days PRIORITY  
**Telephone No.:** 509-376-4650  
**Purchase Order/Charge Code:** 300071  
**Ice Chest No.:** N/A  
**Bill of Lading/Air Bill No.:** N/A  
**Offsite Property No.:** N/A

**POSSIBLE SAMPLE HAZARDS/REMARK**  
 \*\* \*\* 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.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HM37	N	W	2-1-18	1033	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	COOL <=6C

02/16/2018  
 WNS1  
 WCAAS

**Relinquished By:** W.R. Chamm FEB 01 2018 1100  
**Received By:** Jeff Lucas FEB 01 2018 1100  
**Print First and Last Name:** Malcom Chamm  
**Signature:** [Signature]  
**Date/Time:** FEB 01 2018 1100

**Relinquished By:** Jeff Lucas FEB 01 2018 1335  
**Received By:** J. Bock, TARI FEB 01 2018 1335  
**Print First and Last Name:** Jeff Lucas  
**Signature:** [Signature]  
**Date/Time:** FEB 01 2018 1335

**Relinquished By:** [Signature] [Date/Time]  
**Received By:** [Signature] [Date/Time]

**Relinquished By:** [Signature] [Date/Time]  
**Received By:** [Signature] [Date/Time]

**Relinquished By:** [Signature] [Date/Time]  
**Received By:** [Signature] [Date/Time]

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

**Matrix \***  
 S = Soil  
 SE = Sediment  
 SO = Solid  
 SL = Sludge  
 W = Water  
 O = Oil  
 A = Air  
 DS = Drum Solids  
 DL = Drum Liquid  
 T = Tissue  
 WI = Wipe  
 L = Liquid  
 V = Vegetation  
 X = Other

Client: CH2M Hill Plateau Remediation Company  
Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

**Client Sample ID: B3HM46**

**Lab Sample ID: 300-6757-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	12	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.45	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.099	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	25	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B3HM19**

**Lab Sample ID: 300-6757-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	16	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.41	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.11	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	32	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B3HM37**

**Lab Sample ID: 300-6757-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	8.8	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.41	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.092	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	21	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.



Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
 SDG: WC2695

**Client Sample ID: B3HM46**

**Lab Sample ID: 300-6757-1**

Date Collected: 02/01/18 09:05

Matrix: Water

Date Received: 02/01/18 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7	D	0.40	0.20	mg/L			02/02/18 14:00	2
Nitrate as N	12	D	0.14	0.070	mg/L			02/02/18 17:45	5
Fluoride	0.45	D	0.10	0.050	mg/L			02/02/18 14:00	2
Nitrite as N	0.099	D	0.076	0.038	mg/L			02/02/18 14:00	2
Sulfate	25	D	0.50	0.25	mg/L			02/02/18 14:00	2

**Client Sample ID: B3HM19**

**Lab Sample ID: 300-6757-2**

Date Collected: 02/01/18 08:28

Matrix: Water

Date Received: 02/01/18 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	0.40	0.20	mg/L			02/02/18 13:44	2
Nitrate as N	16	D	0.14	0.070	mg/L			02/02/18 17:29	5
Fluoride	0.41	D	0.10	0.050	mg/L			02/02/18 13:44	2
Nitrite as N	0.11	D	0.076	0.038	mg/L			02/02/18 13:44	2
Sulfate	32	D	0.50	0.25	mg/L			02/02/18 13:44	2

**Client Sample ID: B3HM37**

**Lab Sample ID: 300-6757-3**

Date Collected: 02/01/18 10:33

Matrix: Water

Date Received: 02/01/18 13:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10	D	0.40	0.20	mg/L			02/02/18 12:56	2
Nitrate as N	8.8	D	0.056	0.028	mg/L			02/02/18 12:56	2
Fluoride	0.41	D	0.10	0.050	mg/L			02/02/18 12:56	2
Nitrite as N	0.092	D	0.076	0.038	mg/L			02/02/18 12:56	2
Sulfate	21	D	0.50	0.25	mg/L			02/02/18 12:56	2

Client: CH2M Hill Plateau Remediation Company  
Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-10367/5  
Matrix: Water  
Analysis Batch: 10367

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			02/02/18 12:24	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			02/02/18 12:24	1

Lab Sample ID: LCS 300-10367/6  
Matrix: Water  
Analysis Batch: 10367

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	2.13		mg/L		94	80 - 120
Nitrite as N	3.04	3.10		mg/L		102	80 - 120

Lab Sample ID: 300-6757-3 MS  
Matrix: Water  
Analysis Batch: 10367

Client Sample ID: B3HM37  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	8.8	D	0.452	8.96	D	mg/L		38	75 - 125
Nitrite as N	0.092	D	0.609	0.555	D	mg/L		76	75 - 125

Lab Sample ID: 300-6757-3 DU  
Matrix: Water  
Analysis Batch: 10367

Client Sample ID: B3HM37  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	8.8	D	8.55	D	mg/L		3	20
Nitrite as N	0.092	D	0.0932	D	mg/L		0.9	20

Lab Sample ID: MB 300-10368/5  
Matrix: Water  
Analysis Batch: 10368

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			02/02/18 12:24	1
Fluoride	0.025	U	0.050	0.025	mg/L			02/02/18 12:24	1
Sulfate	0.13	U	0.25	0.13	mg/L			02/02/18 12:24	1

Lab Sample ID: LCS 300-10368/6  
Matrix: Water  
Analysis Batch: 10368

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	4.11		mg/L		103	80 - 120
Sulfate	20.0	20.3		mg/L		101	80 - 120

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
 SDG: WC2695

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

**Lab Sample ID: 300-6757-3 MS**  
**Matrix: Water**  
**Analysis Batch: 10368**

**Client Sample ID: B3HM37**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	
Chloride	10	D	3.20	13.3	D	mg/L		90	75 - 125	
Fluoride	0.41	D	0.800	1.15	D	mg/L		93	75 - 125	
Sulfate	21	D	4.00	25.4	D	mg/L		106	75 - 125	

**Lab Sample ID: 300-6757-3 DU**  
**Matrix: Water**  
**Analysis Batch: 10368**

**Client Sample ID: B3HM37**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	
Chloride	10	D	10.1	D	mg/L		2	20	
Fluoride	0.41	D	0.400	D	mg/L		2	20	
Sulfate	21	D	21.3	D	mg/L		0.6	20	

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Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
 SDG: WC2695

**HPLC/IC**

**Analysis Batch: 10367**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6757-1	B3HM46	Total/NA	Water	300.0	
300-6757-1	B3HM46	Total/NA	Water	300.0	
300-6757-2	B3HM19	Total/NA	Water	300.0	
300-6757-2	B3HM19	Total/NA	Water	300.0	
300-6757-3	B3HM37	Total/NA	Water	300.0	
MB 300-10367/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10367/6	Lab Control Sample	Total/NA	Water	300.0	
300-6757-3 MS	B3HM37	Total/NA	Water	300.0	
300-6757-3 DU	B3HM37	Total/NA	Water	300.0	

**Analysis Batch: 10368**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6757-1	B3HM46	Total/NA	Water	300.0	
300-6757-2	B3HM19	Total/NA	Water	300.0	
300-6757-3	B3HM37	Total/NA	Water	300.0	
MB 300-10368/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10368/6	Lab Control Sample	Total/NA	Water	300.0	
300-6757-3 MS	B3HM37	Total/NA	Water	300.0	
300-6757-3 DU	B3HM37	Total/NA	Water	300.0	



Client: CH2M Hill Plateau Remediation Company  
Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

**Client Sample ID: B3HM46**

**Lab Sample ID: 300-6757-1**

Date Collected: 02/01/18 09:05

Matrix: Water

Date Received: 02/01/18 13:35

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			10367	02/02/18 14:00	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10368	02/02/18 14:00	ALR	TAL RCH
Total/NA	Analysis	300.0		5			10367	02/02/18 17:45	RTQ	TAL RCH

**Client Sample ID: B3HM19**

**Lab Sample ID: 300-6757-2**

Date Collected: 02/01/18 08:28

Matrix: Water

Date Received: 02/01/18 13:35

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			10367	02/02/18 13:44	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10368	02/02/18 13:44	ALR	TAL RCH
Total/NA	Analysis	300.0		5			10367	02/02/18 17:29	RTQ	TAL RCH

**Client Sample ID: B3HM37**

**Lab Sample ID: 300-6757-3**

Date Collected: 02/01/18 10:33

Matrix: Water

Date Received: 02/01/18 13:35

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			10367	02/02/18 12:56	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10368	02/02/18 12:56	ALR	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-10367/5**

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			10367	02/02/18 12:24	RTQ	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-10368/5**

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			10368	02/02/18 12:24	ALR	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-10367/6**

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			10367	02/02/18 12:40	RTQ	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-10368/6**

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			10368	02/02/18 12:40	ALR	TAL RCH

**Client Sample ID: B3HM37**

**Lab Sample ID: 300-6757-3 MS**

Date Collected: 02/01/18 10:33

Matrix: Water

Date Received: 02/01/18 13:35

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			10367	02/02/18 13:12	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10368	02/02/18 13:12	ALR	TAL RCH

**Client Sample ID: B3HM37**

**Lab Sample ID: 300-6757-3 DU**

Date Collected: 02/01/18 10:33

Matrix: Water

Date Received: 02/01/18 13:35

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			10367	02/02/18 13:28	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10368	02/02/18 13:28	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: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

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

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**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



Client: CH2M Hill Plateau Remediation Company  
Project/Site: X18-025

TestAmerica Job ID: 300-6757-1  
SDG: WC2695

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-6757-1	B3HM46	Water	02/01/18 09:05	02/01/18 13:35
300-6757-2	B3HM19	Water	02/01/18 08:28	02/01/18 13:35
300-6757-3	B3HM37	Water	02/01/18 10:33	02/01/18 13:35

- 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: 300-6757-1

SDG Number: WC2695

Login Number: 6757

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	

