

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: 300-1682-1
TestAmerica Sample Delivery Group: WC0634
Client Project/Site: CHPRC Chemical Hanford

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

Attn: CPP Sample Management



Authorized for release by:
11/30/2015 12:55:26 PM
Steven Campbell, Quality Assurance Assistant
steven.campbell@testamericainc.com

Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
whitney.ritari@testamericainc.com

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are elss than five times the MDL.



LINKS

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Have a Question?



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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.
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)

Client: CH2M Hill Plateau Remediation Company
Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
SDG: WC0634

Job ID: 300-1682-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1682-1**

Comments

No additional comments.

Receipt

The samples were received on 11/20/2015 1:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.5° C.

HPLC/IC

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

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-032
Page 1 of 1

Collector	J.R. Aguilar/CH2M	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>50 / 31</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
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JATA 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	Sample Analysis	Holding Time	Preservative
B331Y1	N	W	11-20-15	1239	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C



300-1682 COC

#1682
W0634

November 30 2015

Relinquished By	J.R. Aguilar/CH2M	Print	Sign	NOV 20 2015	Date/Time	1305	Received By	J. Fiesz, TART	Print	Sign	NOV 20 2015	Date/Time	1305	Received By		Date/Time	
Relinquished By							Received By										
Relinquished By							Received By										
Relinquished By							Received By										

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	J.R. Aguilar/CH2M	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Segregation Post Inj	Logbook No.	HNF-N-506 50 / 59	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
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CER/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			Hold Time		
Sample No.	B331Y9	Filter	N	Date	11-20-15
		*	W	Time	1219
		No./Type Container	1x500-mL P	Sample Analysis	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW/01
		Holding Time	48 Hours	Preservative	Cool <=6C
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

#1682
W06634

November 30, 2015

Relinquished By	J.R. Aguilar/CH2M	Print	Sign	NOV 20 2015	Date/Time	1305	Received By	J. Hines	Print	Sign	NOV 20 2015	Date/Time	1305	Matrix *
Relinquished By							Received By							S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By							Received By							DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By							Received By							

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X15-067-046

Page 1 of 1

Collector	J.R. Aguilar/CH2M	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 80 / 35	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richmond	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA 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	Sample Analysis	Holding Time	Preservative
B331X7	N	11-20-15	11 S1	1X500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

November 30 2015

Relinquished By	J.R. Aguilar/CH2M	Print	Sign	Date/Time	NOV 20 2015 1305	Received By	J. Friesz, TARL	Print	Sign	Date/Time	NOV 20 2015 1305
Relinquished By				Date/Time		Received By				Date/Time	
Relinquished By				Date/Time		Received By				Date/Time	
Relinquished By				Date/Time		Received By				Date/Time	

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHILL Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-027

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>80</u> / <u>39</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
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA 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	Sample Analysis	Holding Time	Preservative
B331Y5	N	W	11-20-15	1122	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

November 30 2015

Relinquished By		Print	J.R. Aguilar	Sign	NOV 20 2015	Date/Time	1305	Received By		Print	J. Finess, TARI	Sign	NOV 20 2015	Date/Time	1305	Matrix *
Relinquished By								Received By								S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By								Received By								DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other

#1682
W06634

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedures, used in process)	Disposed By	Date/Time
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Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
 SDG: WC0634

Client Sample ID: B331Y1

Lab Sample ID: 300-1682-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	5.3	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	160	D	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	35	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B331Y9

Lab Sample ID: 300-1682-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	4.8	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.28	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	1.3	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	62	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B331X7

Lab Sample ID: 300-1682-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	3.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.38	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	7.1	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	38	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B331Y5

Lab Sample ID: 300-1682-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	4.4	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	290	D	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	40	D	13	6.3	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
 SDG: WC0634

Client Sample ID: B331Y1

Date Collected: 11/20/15 12:39

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	10	5.0	mg/L			11/20/15 16:14	50
Nitrate as N	5.3	D	1.4	0.70	mg/L			11/20/15 16:14	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/20/15 16:14	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/20/15 16:14	50
Orthophosphate as P	160	D	4.1	2.1	mg/L			11/20/15 16:14	50
Sulfate	35	D	13	6.3	mg/L			11/20/15 16:14	50

Client Sample ID: B331Y9

Date Collected: 11/20/15 12:19

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26	D	0.40	0.20	mg/L			11/20/15 14:59	2
Nitrate as N	4.8	D	0.056	0.028	mg/L			11/20/15 14:59	2
Fluoride	0.28	D	0.10	0.050	mg/L			11/20/15 14:59	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 14:59	2
Orthophosphate as P	1.3	D	0.16	0.082	mg/L			11/20/15 14:59	2
Sulfate	62	D	0.50	0.25	mg/L			11/20/15 14:59	2

Client Sample ID: B331X7

Date Collected: 11/20/15 11:51

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	D	0.40	0.20	mg/L			11/20/15 15:14	2
Nitrate as N	3.6	D	0.056	0.028	mg/L			11/20/15 15:14	2
Fluoride	0.38	D	0.10	0.050	mg/L			11/20/15 15:14	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 15:14	2
Orthophosphate as P	7.1	D	0.16	0.082	mg/L			11/20/15 15:14	2
Sulfate	38	D	0.50	0.25	mg/L			11/20/15 15:14	2

Client Sample ID: B331Y5

Date Collected: 11/20/15 11:22

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	10	5.0	mg/L			11/20/15 16:29	50
Nitrate as N	4.4	D	1.4	0.70	mg/L			11/20/15 16:29	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/20/15 16:29	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/20/15 16:29	50
Orthophosphate as P	290	D	4.1	2.1	mg/L			11/20/15 16:29	50
Sulfate	40	D	13	6.3	mg/L			11/20/15 16:29	50

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2115/5
 Matrix: Water
 Analysis Batch: 2115

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			11/20/15 12:55	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/20/15 12:55	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/20/15 12:55	1

Lab Sample ID: LCS 300-2115/6
 Matrix: Water
 Analysis Batch: 2115

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	2.39		mg/L		106	80 - 120
Nitrite as N	3.04	3.24		mg/L		106	80 - 120
Orthophosphate as P	6.53	6.97		mg/L		107	80 - 120

Lab Sample ID: 300-1679-A-5 MS
 Matrix: Water
 Analysis Batch: 2115

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.4	D	0.452	5.83	D	mg/L		95	75 - 125
Nitrite as N	0.038	U	0.609	0.587	D	mg/L		97	75 - 125
Orthophosphate as P	0.082	U	1.31	1.17	D	mg/L		90	75 - 125

Lab Sample ID: 300-1679-A-5 DU
 Matrix: Water
 Analysis Batch: 2115

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.4	D	5.37	D	mg/L		0.6	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.082	U	0.082	U	mg/L		NC	20

Lab Sample ID: MB 300-2116/5
 Matrix: Water
 Analysis Batch: 2116

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			11/20/15 12:55	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/20/15 12:55	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/20/15 12:55	1

Lab Sample ID: LCS 300-2116/6
 Matrix: Water
 Analysis Batch: 2116

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	16.7		mg/L		104	80 - 120
Fluoride	4.00	4.21		mg/L		105	80 - 120
Sulfate	20.0	21.1		mg/L		106	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1679-A-5 MS

Matrix: Water

Analysis Batch: 2116

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
Chloride	14	D	3.20	17.3	D	mg/L		103	75 - 125
Fluoride	0.21	D	0.800	0.998	D	mg/L		99	75 - 125
Sulfate	68	D	4.00	72.1	D	mg/L		91	75 - 125

Lab Sample ID: 300-1679-A-5 DU

Matrix: Water

Analysis Batch: 2116

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	14	D	14.0	D	mg/L		0.7	20
Fluoride	0.21	D	0.206	D	mg/L		1	20
Sulfate	68	D	68.2	D	mg/L		0.4	20

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
 SDG: WC0634

HPLC/IC

Analysis Batch: 2115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1679-A-5 DU	Duplicate	Total/NA	Water	300.0	
300-1679-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
300-1682-1	B331Y1	Total/NA	Water	300.0	
300-1682-2	B331Y9	Total/NA	Water	300.0	
300-1682-3	B331X7	Total/NA	Water	300.0	
300-1682-4	B331Y5	Total/NA	Water	300.0	
LCS 300-2115/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2115/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1679-A-5 DU	Duplicate	Total/NA	Water	300.0	
300-1679-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
300-1682-1	B331Y1	Total/NA	Water	300.0	
300-1682-2	B331Y9	Total/NA	Water	300.0	
300-1682-3	B331X7	Total/NA	Water	300.0	
300-1682-4	B331Y5	Total/NA	Water	300.0	
LCS 300-2116/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2116/5	Method Blank	Total/NA	Water	300.0	

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
 SDG: WC0634

Client Sample ID: B331Y1

Date Collected: 11/20/15 12:39

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-1

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		50	10 mL		2115	11/20/15 16:14	CPM	TAL RCH
Total/NA	Analysis	300.0		50	10 mL		2116	11/20/15 16:14	CPM	TAL RCH

Client Sample ID: B331Y9

Date Collected: 11/20/15 12:19

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2115	11/20/15 14:59	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2116	11/20/15 14:59	CPM	TAL RCH

Client Sample ID: B331X7

Date Collected: 11/20/15 11:51

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-3

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	10 mL		2115	11/20/15 15:14	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2116	11/20/15 15:14	CPM	TAL RCH

Client Sample ID: B331Y5

Date Collected: 11/20/15 11:22

Date Received: 11/20/15 13:05

Lab Sample ID: 300-1682-4

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	300.0		50	10 mL		2115	11/20/15 16:29	CPM	TAL RCH
Total/NA	Analysis	300.0		50	10 mL		2116	11/20/15 16:29	CPM	TAL RCH

Client Sample ID: Duplicate

Date Collected: 11/19/15 13:25

Date Received: 11/20/15 10:55

Lab Sample ID: 300-1679-A-5 DU

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2115	11/20/15 13:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2116	11/20/15 13:55	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-2115/6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		2115	11/20/15 13:10	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
 SDG: WC0634

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2116/6

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	10 mL		2116	11/20/15 13:10	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2115/5

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	10 mL		2115	11/20/15 12:55	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2116/5

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	10 mL		2116	11/20/15 12:55	CPM	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-1679-A-5 MS

Date Collected: 11/19/15 13:25

Matrix: Water

Date Received: 11/20/15 10:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2115	11/20/15 13:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2116	11/20/15 13:40	CPM	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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
SDG: WC0634

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



November 30, 2015

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1682-1
SDG: WC0634

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1682-1	B331Y1	Water	11/20/15 12:39	11/20/15 13:05
300-1682-2	B331Y9	Water	11/20/15 12:19	11/20/15 13:05
300-1682-3	B331X7	Water	11/20/15 11:51	11/20/15 13:05
300-1682-4	B331Y5	Water	11/20/15 11:22	11/20/15 13:05

- 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: 300-1682-1
SDG Number: WC0634

Login Number: 1682
List Number: 1
Creator: Friesz, Jordan D

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.	True	
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.	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.	N/A	
Residual Chlorine Checked.	N/A	

