

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: 300-1586-1
TestAmerica Sample Delivery Group: WC0615
Client Project/Site: I16-002

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

Attn: CPP Sample Management



Authorized for release by:
12/8/2015 8:37:40 AM
Steven Campbell, Quality Assurance Assistant
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Designee for
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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. 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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Qualifiers**HPLC/IC**

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

General Chemistry

Qualifier	Qualifier Description
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: I16-002

TestAmerica Job ID: 300-1586-1
SDG: WC0615

Job ID: 300-1586-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1586-1**

Comments

No additional comments.

Receipt

The samples were received on 11/17/2015 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.2° C.

HPLC/IC

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

General Chemistry

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
I16-002-257

Page 1 of 1

Collector	K.M. Campbell/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>8219</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 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	Sample Analysis	Holding Time	Preservative
B33448	Y	W	11-17-15	1030	1x60-mL aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B33446	N	W	11-17-15	1030	1x60-mL aG	7196_CRG: COMMON	24 Hours	Cool <=6C



#1586
wco 615

300-1586 COC

December 08, 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
			NOV 17 2015 1130				NOV 17 2015 1130	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			NOV 17 2015 1310	Received By			NOV 17 2015 1310	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				Received By				

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	K.M. Campbell/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>2219</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 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	Sample Analysis	Holding Time	Preservative
B333Y1	N	W	11-17-15	0955	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B333Y5	Y	W	11-17-15	0955	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#158L
W60615

December 08, 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.M. Campbell/CHPRC			NOV 17 2015 11:30	F.M. Hall/CHPRC			NOV 17 2015 11:30	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
F.M. Hall/CHPRC			NOV 17 2015 1310	J. Beck, TABL			NOV 17 2015 1310	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	

FINAL SAMPLE DISPOSITION	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. #
116-002-399
Page 1 of 1

Collector	K.M. Campbell/CHPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	116-002		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071	
Project Title	100KR4, NOVEMBER 2015		Logbook No.	HNF-N-506 82 / 9		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			PRIORITY			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	Sample Analysis	Holding Time	Preservative
B33BB1	N	W	11-17-15	1030	1x500-mL P	300.0 ANIONS_IC: COMMON	48 Hours	Cool <=6C

#1586
W 10615

December 08, 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.M. Campbell/CHPRC			NOV 17 2015 11:30	F.M. Hall/CHPRC			NOV 17 2015 11:30	SE = Soil SO = Sediment SL = Solid ST = Sludge W = Water O = Oil A = Air
Relinquished By			NOV 17 2015 11:30	Received By	J. BOCK, TARL		NOV 17 2015 11:30	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

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



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
116-002-392
Page 1 of 1

Collector	K.M. Campbell/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>82/9</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 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	Sample Analysis	Holding Time	Preservative
B33B93	N	W	11-17-15	0955	1x500-mL P	300.0 ANIONS_IC: COMMON	48 Hours	Cool <=6C

#1586
W 00615

December 08, 2015

Relinquished By	Print K.M. Campbell/CHPRC	Sign <i>[Signature]</i>	Date/Time NOV 17 2015 11:30	Received By	Print E.M. Hall/CHPRC	Sign <i>[Signature]</i>	Date/Time NOV 17 2015 11:30
Relinquished By	F.M. Hall/CHPRC	<i>[Signature]</i>	NOV 17 2015 1310	Received By	J. Bock, TARL	<i>[Signature]</i>	NOV 17 2015 1310
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
WT	= 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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Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-002

TestAmerica Job ID: 300-1586-1
SDG: WC0615

Client Sample ID: B33448

Lab Sample ID: 300-1586-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.028		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33446

Lab Sample ID: 300-1586-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.028		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B333Y1

Lab Sample ID: 300-1586-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0061		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B333Y5

Lab Sample ID: 300-1586-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33BB1

Lab Sample ID: 300-1586-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	3.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.22	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	53	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B33B93

Lab Sample ID: 300-1586-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.5	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	1.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.13	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	28	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: I16-002

TestAmerica Job ID: 300-1586-1
 SDG: WC0615

Client Sample ID: B33448
Date Collected: 11/17/15 10:30
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.028		0.0040	0.0015	mg/L			11/17/15 14:46	1

Client Sample ID: B33446
Date Collected: 11/17/15 10:30
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.028		0.0040	0.0015	mg/L			11/17/15 14:47	1

Client Sample ID: B333Y1
Date Collected: 11/17/15 09:55
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0061		0.0040	0.0015	mg/L			11/17/15 14:47	1

Client Sample ID: B333Y5
Date Collected: 11/17/15 09:55
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			11/17/15 14:47	1

Client Sample ID: B33BB1
Date Collected: 11/17/15 10:30
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13	D	0.40	0.20	mg/L			11/17/15 16:09	2
Nitrate as N	3.0	D	0.056	0.028	mg/L			11/17/15 16:09	2
Fluoride	0.22	D	0.10	0.050	mg/L			11/17/15 16:09	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/17/15 16:09	2
Sulfate	53	D	0.50	0.25	mg/L			11/17/15 16:09	2

Client Sample ID: B33B93
Date Collected: 11/17/15 09:55
Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-6
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5	D	0.40	0.20	mg/L			11/17/15 16:55	2
Nitrate as N	1.1	D	0.056	0.028	mg/L			11/17/15 16:55	2
Fluoride	0.13	D	0.10	0.050	mg/L			11/17/15 16:55	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/17/15 16:55	2
Sulfate	28	D	0.50	0.25	mg/L			11/17/15 16:55	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2028/5
Matrix: Water
Analysis Batch: 2028

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			11/17/15 12:22	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/17/15 12:22	1

Lab Sample ID: LCS 300-2028/6
Matrix: Water
Analysis Batch: 2028

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	2.40		mg/L		106	80 - 120
Nitrite as N	3.04	3.26		mg/L		107	80 - 120

Lab Sample ID: 300-1586-5 MS
Matrix: Water
Analysis Batch: 2028

Client Sample ID: B33BB1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	3.0	D	0.452	3.47	D	mg/L		103	75 - 125
Nitrite as N	0.038	U	0.609	0.578	D	mg/L		95	75 - 125

Lab Sample ID: 300-1586-5 DU
Matrix: Water
Analysis Batch: 2028

Client Sample ID: B33BB1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	3.0	D	2.99	D	mg/L		0.4	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20

Lab Sample ID: MB 300-2029/5
Matrix: Water
Analysis Batch: 2029

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			11/17/15 12:22	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/17/15 12:22	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/17/15 12:22	1

Lab Sample ID: LCS 300-2029/6
Matrix: Water
Analysis Batch: 2029

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	16.8		mg/L		105	80 - 120
Fluoride	4.00	4.23		mg/L		106	80 - 120
Sulfate	20.0	21.1		mg/L		106	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1586-5 MS
Matrix: Water
Analysis Batch: 2029

Client Sample ID: B33BB1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13	D	3.20	16.3	D	mg/L		101	75 - 125
Fluoride	0.22	D	0.800	1.00	D	mg/L		97	75 - 125
Sulfate	53	D	4.00	56.9	D	mg/L		95	75 - 125

Lab Sample ID: 300-1586-5 DU
Matrix: Water
Analysis Batch: 2029

Client Sample ID: B33BB1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	13	D	13.0	D	mg/L		0.6	20
Fluoride	0.22	D	0.219	D	mg/L		2	20
Sulfate	53	D	52.9	D	mg/L		0.4	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-2046/3
Matrix: Water
Analysis Batch: 2046

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/17/15 14:43	1

Lab Sample ID: LCS 300-2046/4
Matrix: Water
Analysis Batch: 2046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.261		mg/L		104	80 - 120

Lab Sample ID: 300-1586-1 MS
Matrix: Water
Analysis Batch: 2046

Client Sample ID: B33448
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.028		0.0500	0.0760		mg/L		96	85 - 115

Lab Sample ID: 300-1586-1 DU
Matrix: Water
Analysis Batch: 2046

Client Sample ID: B33448
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.028		0.0278		mg/L		1	20

HPLC/IC**Analysis Batch: 2028**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1586-5	B33BB1	Total/NA	Water	300.0	
300-1586-5 DU	B33BB1	Total/NA	Water	300.0	
300-1586-5 MS	B33BB1	Total/NA	Water	300.0	
300-1586-6	B33B93	Total/NA	Water	300.0	
LCS 300-2028/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2028/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1586-5	B33BB1	Total/NA	Water	300.0	
300-1586-5 DU	B33BB1	Total/NA	Water	300.0	
300-1586-5 MS	B33BB1	Total/NA	Water	300.0	
300-1586-6	B33B93	Total/NA	Water	300.0	
LCS 300-2029/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2029/5	Method Blank	Total/NA	Water	300.0	

General Chemistry**Analysis Batch: 2046**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1586-1	B33448	Total/NA	Water	7196A	
300-1586-1 DU	B33448	Total/NA	Water	7196A	
300-1586-1 MS	B33448	Total/NA	Water	7196A	
300-1586-2	B33446	Total/NA	Water	7196A	
300-1586-3	B333Y1	Total/NA	Water	7196A	
300-1586-4	B333Y5	Total/NA	Water	7196A	
LCS 300-2046/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-2046/3	Method Blank	Total/NA	Water	7196A	

Client Sample ID: B33448

Date Collected: 11/17/15 10:30

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:46	AMC	TAL RCH

Client Sample ID: B33446

Date Collected: 11/17/15 10:30

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:47	AMC	TAL RCH

Client Sample ID: B333Y1

Date Collected: 11/17/15 09:55

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:47	AMC	TAL RCH

Client Sample ID: B333Y5

Date Collected: 11/17/15 09:55

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:47	AMC	TAL RCH

Client Sample ID: B33BB1

Date Collected: 11/17/15 10:30

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2028	11/17/15 16:09	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2029	11/17/15 16:09	CPM	TAL RCH

Client Sample ID: B33B93

Date Collected: 11/17/15 09:55

Date Received: 11/17/15 13:10

Lab Sample ID: 300-1586-6

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		2	10 mL		2028	11/17/15 16:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2029	11/17/15 16:55	CPM	TAL RCH

Client Sample ID: B33448

Lab Sample ID: 300-1586-1 DU

Date Collected: 11/17/15 10:30

Matrix: Water

Date Received: 11/17/15 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	7196A		1			2046	11/17/15 14:46	AMC	TAL RCH

Client Sample ID: B33BB1

Lab Sample ID: 300-1586-5 DU

Date Collected: 11/17/15 10:30

Matrix: Water

Date Received: 11/17/15 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	10 mL		2028	11/17/15 16:39	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2029	11/17/15 16:39	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2028/6

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		2028	11/17/15 12:37	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2029/6

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		2029	11/17/15 12:37	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2046/4

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:43	AMC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2028/5

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		2028	11/17/15 12:22	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: I16-002

TestAmerica Job ID: 300-1586-1
 SDG: WC0615

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2029/5

Date Collected: N/A
 Date Received: N/A

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		2029	11/17/15 12:22	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2046/3

Date Collected: N/A
 Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2046	11/17/15 14:43	AMC	TAL RCH

Client Sample ID: B33448

Lab Sample ID: 300-1586-1 MS

Date Collected: 11/17/15 10:30
 Date Received: 11/17/15 13:10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1		3.0 mL	2046	11/17/15 14:43	AMC	TAL RCH

Client Sample ID: B33BB1

Lab Sample ID: 300-1586-5 MS

Date Collected: 11/17/15 10:30
 Date Received: 11/17/15 13:10

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		2028	11/17/15 16:24	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2029	11/17/15 16:24	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: I16-002

TestAmerica Job ID: 300-1586-1
SDG: WC0615

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-002

TestAmerica Job ID: 300-1586-1
SDG: WC0615

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1586-1	B33448	Water	11/17/15 10:30	11/17/15 13:10
300-1586-2	B33446	Water	11/17/15 10:30	11/17/15 13:10
300-1586-3	B333Y1	Water	11/17/15 09:55	11/17/15 13:10
300-1586-4	B333Y5	Water	11/17/15 09:55	11/17/15 13:10
300-1586-5	B33BB1	Water	11/17/15 10:30	11/17/15 13:10
300-1586-6	B33B93	Water	11/17/15 09:55	11/17/15 13:10

- 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: 300-1586-1
SDG Number: WC0615

Login Number: 1586
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	

