

7/14/2016

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: 300-3244-1
TestAmerica Sample Delivery Group: WC1147
Client Project/Site: X16-037

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

Attn: CPP Sample Management



Authorized for release by:
7/14/2016 12:56:59 PM
Steven Campbell, Project Mgmt. Assistant
steven.campbell@testamericainc.com

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

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

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



LINKS

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

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
B	Estimated result. Result is less than the RL, but greater than MDL
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was $\leq 5X$ the blank concentration.

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: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Job ID: 300-3244-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3244-1

Comments

No additional comments.

Receipt

The samples were received on 6/9/2016 1:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.9° C.

HPLC/IC

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

General Chemistry

Method 7196A: The method blank for analytical batch 300-4517 contained Cr (VI) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-092
Page 1 of 1

Collector	W.M. WISSECHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-037	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027
Project Title	100-KW Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 66 / 22	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
 *** 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
 Special Handling/N/A

Hold Time
 Total Activity Exemption: Yes No

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35LY9	N	W	6/4/16	1001	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35M01	Y	W	6/1	1	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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 USC111111

300-3244 COC



Relinquished By	Print <i>[Signature]</i> Sign	Date/Time	JUN 09 2016 1145	Received By	Print <i>[Signature]</i> Sign	Date/Time	JUN 09 2016 1145	Matrix *
W.M. WISSECHPRC				Lesly West KCHPRC				S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Print <i>[Signature]</i> Sign	Date/Time	JUN 09 2016 1355	Received By	Print <i>[Signature]</i> Sign	Date/Time	JUN 09 2016 1355	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				J. Bock, TARL				

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. # **X16-037-126**
Page 1 of 1

Collector WM.WISECHFRG	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. X16-037	Sampling Origin Hanford Site	Purchase Order/Charge Code 304027
Project Title 100-KW Rebound Study, May 31, 2016	Logbook No. HNF-N-506-86/20	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		
*** 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 Special Handling: N/A		
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
B35MC2	N	W/JUN 09 2016	0730	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B35MC6	Y	W	1	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C

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Relinquished By WM.WISECHFRG	Print <i>[Signature]</i> Sign	Date/Time JUN 09 2016	Received By Lesly West	Print <i>[Signature]</i> Sign	Date/Time JUN 09 2016	Matrix *
Relinquished By Lesly West	Print <i>[Signature]</i> Sign	Date/Time JUN 09 2016	Received By J. Beck, TARI	Print <i>[Signature]</i> Sign	Date/Time JUN 09 2016	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
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-037-128

Page 1 of 1

Collector	W.M. WISE/CFPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650			
SAF No.	X16-037	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027			
Project Title	100-KW Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 <u>86/20</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			PRIORITY					
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS N/A Special Handling: N/A					
Sample No.	Filter *	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative	
B35MC7	Y	W	6/9/16	0553	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35MC3	N	W	6/9/16	1	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

7/14/2016

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Relinquished By	W.M. WISE/CFPRC	Print Sign	Date/Time	Received By	Print Sign	Date/Time	Matrix *
Relinquished By	Lesly Neal CFPRC	Print Sign	Date/Time	Received By	Print Sign	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Lesly Neal CFPRC	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
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	

PRINTED ON 5/23/2016

FSR ID = FSR2690

A-6004-842 (REV 2)



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-138
Page 1 of 1

Collector	WM WISECHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-037	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027
Project Title	100-KW Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 <u>SL/20</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			PRIORITY		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS N/A Special Handling: N/A		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time		

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35MH7	N	W	6/9/16	1015	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35MH9	Y	W	6/9/16	1	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

3244
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Relinquished By	WM WISECHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	Ledy West KCHPRC	<i>[Signature]</i>	<i>[Signature]</i>	JUN 09 2016 1145	Ledy West KCHPRC	<i>[Signature]</i>	<i>[Signature]</i>	JUN 09 2016 1145	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Ledy West KCHPRC	<i>[Signature]</i>	<i>[Signature]</i>	JUN 09 2016 1355	J. Bock, TARRL	<i>[Signature]</i>	<i>[Signature]</i>	JUN 09 2016 1355	DS = Drumm Solids DL = Drumm Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				Date/Time	Received By			Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2MHill Plateau Remediation Company

C.O.C. #
X16-037-183
Page 1 of 1

Collector	WM WISECHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-037	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027
Project Title	100-KW Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 <u>Sto/20</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			PRIORITY		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS		
			Hold Time		
			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
B35VK3	N	W	6/9/16	1107	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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Relinquished By	WM WISECHPRC	Print Sign	<i>[Signature]</i>	Date/Time	JUN 09 2016 1145	Received By	WM WISECHPRC	Print Sign	<i>[Signature]</i>	Date/Time	JUN 09 2016 1145	Matrix *
Relinquished By	<i>[Signature]</i>	Date/Time	JUN 09 2016 1355	Received By	<i>[Signature]</i>	Date/Time	JUN 09 2016 1355	Matrix *				
Relinquished By	<i>[Signature]</i>	Date/Time	JUN 09 2016 1355	Received By	<i>[Signature]</i>	Date/Time	JUN 09 2016 1355	Matrix *				

- 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)
PRINTED ON 5/23/2016	FSR ID = FSR32342



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-137
Page 1 of 1

Collector	WML WISECHFRG	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-037	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027
Project Title	100-KW Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 <u>File / 20</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			PRIORITY		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS N/A Special Handling: N/A		
Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis
B35MIH6	N	W	6/9/16	1x500-ml P	300.0 ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

3244
WMLH6

Relinquished By	Print WML WISECHFRG	Sign	Print Karen Waters-Husted	Date/Time	Date/Time	Received By	Print Lesly Rose	Sign	Print J. Beck, TARL	Date/Time	Date/Time	Matrix *
Relinquished By	WML WISECHFRG			JUN 09 2016	1145	Received By	Lesly Rose		J. Beck, TARL	JUN 09 2016	1355	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
Relinquished By	Lesly Rose WML WISECHFRG			JUN 09 2016	1355	Received By	J. Beck, TARL			JUN 09 2016	1355	
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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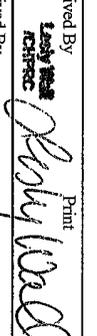
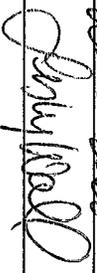
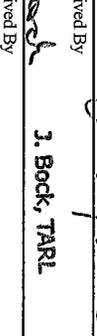
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-194

Page 1 of 1

Collector: W.M. WISECHFRGC		Contract/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: X16-037	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 304027	
Project Title: 100-KW Rebound Study, May 31, 2016	Logbook No.: HNF-N-506	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	Hold Time
*** 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	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample No.: B35VL3	Filter: N	Date: 6/6/16	Time: 6:30
No./Type Container: 1x500-mL P	Sample Analysis: 300.0_ANIONS_IC: COMMON	Holding Time: 48 Hours	Preservative: Cool <=6C

3244
w c i n n

Relinquished By: W.M. WISECHFRGC		Date/Time: JUN 09 2016 1149	Received By: Lesly West		Date/Time: JUN 09 2016 1149
Relinquished By: Lesly West		Date/Time: JUN 09 2016 1355	Received By: J. Bock, TABL		Date/Time: JUN 09 2016 1355
Relinquished By: _____	_____	Date/Time: _____	Received By: _____	_____	Date/Time: _____

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

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35LY9

Lab Sample ID: 300-3244-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35M01

Lab Sample ID: 300-3244-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MC2

Lab Sample ID: 300-3244-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0032	B C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MC6

Lab Sample ID: 300-3244-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0032	B C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MC7

Lab Sample ID: 300-3244-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0077	C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MC3

Lab Sample ID: 300-3244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0077	C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MH7

Lab Sample ID: 300-3244-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0094	C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MH9

Lab Sample ID: 300-3244-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0094	C	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35VK3

Lab Sample ID: 300-3244-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	11	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.16	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	65	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35MH6

Lab Sample ID: 300-3244-10

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	5.7	D	0.056	0.028	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35MH6 (Continued)

Lab Sample ID: 300-3244-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.23	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	62	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35VL2

Lab Sample ID: 300-3244-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	8.6	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	39	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35VL3

Lab Sample ID: 300-3244-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35LY9

Date Collected: 06/09/16 11:01
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			06/09/16 16:25	1

Client Sample ID: B35M01

Date Collected: 06/09/16 11:01
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			06/09/16 16:26	1

Client Sample ID: B35MC2

Date Collected: 06/09/16 07:30
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0032	B C	0.0040	0.0015	mg/L			06/09/16 16:26	1

Client Sample ID: B35MC6

Date Collected: 06/09/16 07:30
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0032	B C	0.0040	0.0015	mg/L			06/09/16 16:26	1

Client Sample ID: B35MC7

Date Collected: 06/09/16 08:53
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0077	C	0.0040	0.0015	mg/L			06/09/16 16:27	1

Client Sample ID: B35MC3

Date Collected: 06/09/16 08:53
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0077	C	0.0040	0.0015	mg/L			06/09/16 16:27	1

Client Sample ID: B35MH7

Date Collected: 06/09/16 10:15
Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0094	C	0.0040	0.0015	mg/L			06/09/16 16:30	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35MH9

Date Collected: 06/09/16 10:15

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0094	C	0.0040	0.0015	mg/L			06/09/16 16:30	1

Client Sample ID: B35VK3

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23	D	0.40	0.20	mg/L			06/09/16 17:08	2
Nitrate as N	11	D	0.056	0.028	mg/L			06/09/16 17:08	2
Fluoride	0.16	D	0.10	0.050	mg/L			06/09/16 17:08	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/09/16 17:08	2
Sulfate	65	D	0.50	0.25	mg/L			06/09/16 17:08	2

Client Sample ID: B35MH6

Date Collected: 06/09/16 10:15

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-10

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			06/09/16 17:53	2
Nitrate as N	5.7	D	0.056	0.028	mg/L			06/09/16 17:53	2
Fluoride	0.23	D	0.10	0.050	mg/L			06/09/16 17:53	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/09/16 17:53	2
Sulfate	62	D	0.50	0.25	mg/L			06/09/16 17:53	2

Client Sample ID: B35VL2

Date Collected: 06/09/16 08:53

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-11

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21	D	0.40	0.20	mg/L			06/09/16 18:08	2
Nitrate as N	8.6	D	0.056	0.028	mg/L			06/09/16 18:08	2
Fluoride	0.22	D	0.10	0.050	mg/L			06/09/16 18:08	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/09/16 18:08	2
Sulfate	39	D	0.50	0.25	mg/L			06/09/16 18:08	2

Client Sample ID: B35VL3

Date Collected: 06/09/16 07:30

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-12

Matrix: Water

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			06/09/16 18:23	2
Nitrate as N	0.028	U D	0.056	0.028	mg/L			06/09/16 18:23	2
Fluoride	0.050	U D	0.10	0.050	mg/L			06/09/16 18:23	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/09/16 18:23	2
Sulfate	0.25	U D	0.50	0.25	mg/L			06/09/16 18:23	2

TestAmerica Richland

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
 SDG: WC1147

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4484/5
 Matrix: Water
 Analysis Batch: 4484

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			06/09/16 16:38	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/09/16 16:38	1

Lab Sample ID: LCS 300-4484/6
 Matrix: Water
 Analysis Batch: 4484

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

Lab Sample ID: 300-3244-9 MS
 Matrix: Water
 Analysis Batch: 4484

Client Sample ID: B35VK3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	11	D	0.452	11.2	D	mg/L		75	75 - 125
Nitrite as N	0.038	U D	0.609	0.538	D	mg/L		88	75 - 125

Lab Sample ID: 300-3244-9 DU
 Matrix: Water
 Analysis Batch: 4484

Client Sample ID: B35VK3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	11	D	10.8	D	mg/L		0.8	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-4485/5
 Matrix: Water
 Analysis Batch: 4485

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			06/09/16 16:38	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/09/16 16:38	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/09/16 16:38	1

Lab Sample ID: LCS 300-4485/6
 Matrix: Water
 Analysis Batch: 4485

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	16.0		mg/L		100	80 - 120
Fluoride	4.00	4.00		mg/L		100	80 - 120
Sulfate	20.0	20.1		mg/L		100	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3244-9 MS
Matrix: Water
Analysis Batch: 4485

Client Sample ID: B35VK3
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Chloride	23	D	3.20	26.4	D	mg/L		95	75 - 125
Fluoride	0.16	D	0.800	0.883	D	mg/L		90	75 - 125
Sulfate	65	D	4.00	68.9	D	mg/L		89	75 - 125

Lab Sample ID: 300-3244-9 DU
Matrix: Water
Analysis Batch: 4485

Client Sample ID: B35VK3
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Chloride	23	D	23.2	D	mg/L		0.8	20
Fluoride	0.16	D	0.157	D	mg/L		0.9	20
Sulfate	65	D	64.8	D	mg/L		0.8	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4517/3
Matrix: Water
Analysis Batch: 4517

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.00290	B	0.0040	0.0015	mg/L			06/09/16 16:22	1

Lab Sample ID: LCS 300-4517/4
Matrix: Water
Analysis Batch: 4517

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cr (VI)	0.250	0.257		mg/L		103	80 - 120

Lab Sample ID: 300-3244-1 MS
Matrix: Water
Analysis Batch: 4517

Client Sample ID: B35LY9
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Cr (VI)	0.018		0.0499	0.0688		mg/L		101	75 - 125

Lab Sample ID: 300-3244-1 DU
Matrix: Water
Analysis Batch: 4517

Client Sample ID: B35LY9
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Cr (VI)	0.018		0.0177		mg/L		3	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
 SDG: WC1147

HPLC/IC

Analysis Batch: 4484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3244-9	B35VK3	Total/NA	Water	300.0	
300-3244-9 DU	B35VK3	Total/NA	Water	300.0	
300-3244-9 MS	B35VK3	Total/NA	Water	300.0	
300-3244-10	B35MH6	Total/NA	Water	300.0	
300-3244-11	B35VL2	Total/NA	Water	300.0	
300-3244-12	B35VL3	Total/NA	Water	300.0	
LCS 300-4484/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4484/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3244-9	B35VK3	Total/NA	Water	300.0	
300-3244-9 DU	B35VK3	Total/NA	Water	300.0	
300-3244-9 MS	B35VK3	Total/NA	Water	300.0	
300-3244-10	B35MH6	Total/NA	Water	300.0	
300-3244-11	B35VL2	Total/NA	Water	300.0	
300-3244-12	B35VL3	Total/NA	Water	300.0	
LCS 300-4485/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4485/5	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3244-1	B35LY9	Total/NA	Water	7196A	
300-3244-1 DU	B35LY9	Total/NA	Water	7196A	
300-3244-1 MS	B35LY9	Total/NA	Water	7196A	
300-3244-2	B35M01	Total/NA	Water	7196A	
300-3244-3	B35MC2	Total/NA	Water	7196A	
300-3244-4	B35MC6	Total/NA	Water	7196A	
300-3244-5	B35MC7	Total/NA	Water	7196A	
300-3244-6	B35MC3	Total/NA	Water	7196A	
300-3244-7	B35MH7	Total/NA	Water	7196A	
300-3244-8	B35MH9	Total/NA	Water	7196A	
LCS 300-4517/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4517/3	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35LY9

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-1

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			4517	06/09/16 16:25	RLC	TAL RCH

Client Sample ID: B35M01

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-2

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			4517	06/09/16 16:26	RLC	TAL RCH

Client Sample ID: B35MC2

Date Collected: 06/09/16 07:30

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-3

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			4517	06/09/16 16:26	RLC	TAL RCH

Client Sample ID: B35MC6

Date Collected: 06/09/16 07:30

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-4

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			4517	06/09/16 16:26	RLC	TAL RCH

Client Sample ID: B35MC7

Date Collected: 06/09/16 08:53

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-5

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	7196A		1			4517	06/09/16 16:27	RLC	TAL RCH

Client Sample ID: B35MC3

Date Collected: 06/09/16 08:53

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-6

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	7196A		1			4517	06/09/16 16:27	RLC	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35MH7

Date Collected: 06/09/16 10:15

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-7

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			4517	06/09/16 16:30	RLC	TAL RCH

Client Sample ID: B35MH9

Date Collected: 06/09/16 10:15

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-8

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			4517	06/09/16 16:30	RLC	TAL RCH

Client Sample ID: B35VK3

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-9

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		4484	06/09/16 17:08	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 17:08	CPM	TAL RCH

Client Sample ID: B35MH6

Date Collected: 06/09/16 10:15

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-10

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		4484	06/09/16 17:53	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 17:53	CPM	TAL RCH

Client Sample ID: B35VL2

Date Collected: 06/09/16 08:53

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-11

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		4484	06/09/16 18:08	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 18:08	CPM	TAL RCH

Client Sample ID: B35VL3

Date Collected: 06/09/16 07:30

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-12

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		4484	06/09/16 18:23	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 18:23	CPM	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

Client Sample ID: B35LY9

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-1 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	7196A		1			4517	06/09/16 16:25	RLC	TAL RCH

Client Sample ID: B35VK3

Date Collected: 06/09/16 11:01

Date Received: 06/09/16 13:55

Lab Sample ID: 300-3244-9 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		4484	06/09/16 17:38	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 17:38	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4484/6

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		4484	06/09/16 16:53	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4485/6

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		4485	06/09/16 16:53	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4517/4

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			4517	06/09/16 16:22	RLC	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-4484/5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		4484	06/09/16 16:38	CPM	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-037

TestAmerica Job ID: 300-3244-1
 SDG: WC1147

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4485/5

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		4485	06/09/16 16:38	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4517/3

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			4517	06/09/16 16:22	RLC	TAL RCH

Client Sample ID: B35LY9

Lab Sample ID: 300-3244-1 MS

Date Collected: 06/09/16 11:01

Matrix: Water

Date Received: 06/09/16 13:55

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	4517	06/09/16 16:22	RLC	TAL RCH

Client Sample ID: B35VK3

Lab Sample ID: 300-3244-9 MS

Date Collected: 06/09/16 11:01

Matrix: Water

Date Received: 06/09/16 13:55

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		4484	06/09/16 17:23	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4485	06/09/16 17:23	CPM	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: X16-037

TestAmerica Job ID: 300-3244-1
SDG: WC1147

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: X16-037

TestAmerica Job ID: 300-3244-1
 SDG: WC1147

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3244-1	B35LY9	Water	06/09/16 11:01	06/09/16 13:55
300-3244-2	B35M01	Water	06/09/16 11:01	06/09/16 13:55
300-3244-3	B35MC2	Water	06/09/16 07:30	06/09/16 13:55
300-3244-4	B35MC6	Water	06/09/16 07:30	06/09/16 13:55
300-3244-5	B35MC7	Water	06/09/16 08:53	06/09/16 13:55
300-3244-6	B35MC3	Water	06/09/16 08:53	06/09/16 13:55
300-3244-7	B35MH7	Water	06/09/16 10:15	06/09/16 13:55
300-3244-8	B35MH9	Water	06/09/16 10:15	06/09/16 13:55
300-3244-9	B35VK3	Water	06/09/16 11:01	06/09/16 13:55
300-3244-10	B35MH6	Water	06/09/16 10:15	06/09/16 13:55
300-3244-11	B35VL2	Water	06/09/16 08:53	06/09/16 13:55
300-3244-12	B35VL3	Water	06/09/16 07:30	06/09/16 13:55

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3244-1

SDG Number: WC1147

Login Number: 3244

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	