

6/27/2016

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: 300-3140-1
TestAmerica Sample Delivery Group: WC1103
Client Project/Site: S16-005/S16-004/I16-023

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

Attn: CPP Sample Management



Authorized for release by:
6/27/2016 9:31:03 AM
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: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

Job ID: 300-3140-1

Laboratory: TestAmerica Richland

Narrative**Job Narrative
300-3140-1****Comments**

No additional comments.

Receipt

The samples were received on 5/26/2016 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

HPLC/IC

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

General Chemistry

Method 7196A: The following samples were analyzed outside of analytical holding: B351B5 (300-3140-1), B351B6 (300-3140-2), B35194 (300-3140-3), B35192 (300-3140-4), B35148 (300-3140-5), B35145 (300-3140-6), B35184 (300-3140-7), B35188 (300-3140-8), B35189 (300-3140-9), B35185 (300-3140-10), B350Y6 (300-3140-11), B350Y4 (300-3140-12), B35106 (300-3140-13), B35110 (300-3140-14), B35109 (300-3140-15), B35105 (300-3140-16), B35129 (300-3140-17), B35128 (300-3140-18), B351C9 (300-3140-19), B351D0 (300-3140-20), B34LK4 (300-3140-21), B34LK3 (300-3140-22), B34LB1 (300-3140-23), B34LB2 (300-3140-24) and B350W4 (300-3140-25). For more information refer to SIR attached to report.

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

SAMPLE ISSUE RESOLUTION	SIR NUM	SIR16-446
	REV NUM	0
	DATE INITIATED	6/27/2016

SAMPLE EVENT INFORMATION

SAF NUM(S) S16-005, S16-004, I16-023
OPERABLE UNIT(S) NONE
PROJECT(S) CERC16, SURV16
SAMPLE EVENT TITLE(S) CERC16, SURV16
LABORATORY TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES 25
SAMPLE NUMBERS B34LB1, B34LB2, B34LK3, B34LK4, B350W4, B350Y4, B350Y6, B35105, B35106, B35109, B35110, B35128, B35129, B35145, B35148, B35184, B35185, B35188, B35189, B35192, B35194, B351B5, B351B6, B351C9, B351D0
SAMPLE MATRIX WATER
COLLECTION DATE 5/26/2016 - 5/26/2016
SDG NUM WC1103

ISSUE BACKGROUND

CLASS Laboratory Issue
TYPE Analysis Holding Time Exceeded
DESCRIPTION The samples listed above were analyzed outside of hold time for Cr VI analysis due to lab error.

DISPOSITION

DESCRIPTION Initiate SIR, report results and include hold time comment in the case narrative.

JUSTIFICATION Final Disposition: Accept proposed resolution.

SUBMITTED BY: Steven Campbell DATE: 06/24/2016
ACCEPTED BY: Scot Fitzgerald DATE: 06/27/2016

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

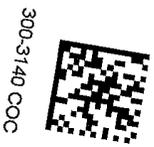
C.O.C.#
S16-005-224

Page 1 of 1

Collector: Karen Campbell CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650	C.O.C.# S16-005-224
SAF No.: S16-005	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071	Page 1 of 1
Project Title: SURV, MAY 2016	Logbook No.: HNF-N-506 <u>83/77</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: SURV	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		N/A Special Handling: N/A	

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B351B5	N	W	5-26-16	0816	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B351B6	Y	W	5-26-16	0816	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3140
W21103



Relinquished By: Karen Campbell CHPRC Sign: <i>[Signature]</i> Date/Time: MAY 26 2016 1100	Received By: Frank Hall CHPRC Sign: <i>[Signature]</i> Date/Time: MAY 26 2016 1100
Relinquished By: Frank Hall CHPRC Sign: <i>[Signature]</i> Date/Time: MAY 26 2016 1100	Received By: J. Bock, TARI Sign: <i>[Signature]</i> Date/Time: MAY 26 2016 1100
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: _____	

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-219
Page 1 of 1

Collector Karen Campbell CHPRC	SAF No. S16-005	Project Title SURV, MAY 2016	Shipped To (Lab) TestAmerica Incorporated, Richland	Protocol SURV	Contact/Requester Karen Waters-Husted	Sampling Origin Hanford Site	Logbook No. HNF-N-506 <u>83/77</u>	Method of Shipment GOVERNMENT VEHICLE	Priority: 30 Days	Telephone No. 509-376-4650	Purchase Order/Charge Code 300071	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A	Offsite Property No. N/A	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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										
Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis		Holding Time	Preservative						
B35194	Y	W	5-26-16	0806	1x60-ml aG	7196_CR6: COMMON		24 Hours	Cool <=6C						
B35192	N	W	5-26-16	0806	1x60-ml aG	7196_CR6: COMMON		24 Hours	Cool <=6C						

W3140
W01103

Relinquished By Karen Campbell CHPRC	Print <i>Karen Campbell</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	Received By Frank Hall CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	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
Relinquished By Frank Hall CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	Received By J. Bock, TARL	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	
FINAL SAMPLE DISPOSITION				Disposition Method (e.g., Return to customer, per lab procedure, used in process)				Date/Time

CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-204

Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>83 / 77</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 SURV	Priority: 30 Days	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		N/A Special Handling: N/A

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative	
B35148	Y	W	5-16-16	0827	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35145	N	W	5-26-16	0827	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

Handwritten: B3140
W21103

Relinquished By Karen Campbell CHPRC	Print 	Sign 	Date/Time MAY 16 2016 1100	Received By Frank Hill CHPRC	Print 	Sign 	Date/Time MAY 16 2016 1100	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
Relinquished By Frank Hill CHPRC	Print 	Sign 	Date/Time MAY 26 2016 1400	Received By J. Bock, TARL	Print 	Sign 	Date/Time MAY 26 2016 1400	

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
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)			
Disposal Method				Disposed By			



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-216

Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071	
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>83/77</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 SURV	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		N/A Special Handling/N/A	

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35184	N	5-26-16	0845	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35188	Y	5-26-16	0845	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

3140
WCC11D3

Relinquished By Karen Campbell CHPRC	Print	Sign <i>Karen Campbell</i>	Date/Time MAY 26 2016 1100	Received By Frank Hall CHPRC	Print	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100
Relinquished By Frank Hall CHPRC		<i>[Signature]</i>	MAY 26 2016 1100	Received By <i>[Signature]</i>		<i>[Signature]</i>	MAY 26 2016 1100
Relinquished By			Date/Time	Received By			Date/Time

- 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

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S16-005-218**

Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted
SAF No.	S16-005	Sampling Origin	Hanford Site
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 <u>63 / 77</u>
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE
Protocol	SURV	Priority:	30 Days PRIORITY
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		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
B35189	Y	W	<u>5-26-16</u>	<u>0845</u>	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35185	N	W	<u>5-26-16</u>	<u>0845</u>	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

3140
WCC1103

Relinquished By Karen Campbell CHPRC Print Sign Date/Time MAY 26 2016 11:00	Received By Frank Hall CHPRC Print Sign Date/Time MAY 26 2016 11:00
Relinquished By Frank Hall CHPRC Print Sign Date/Time MAY 26 2016 11:00	Received By J. Bock, TARL Print Sign Date/Time MAY 26 2016 11:00
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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CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-185

Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>23/71</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 SURV	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
B350Y6	Y	W	5-26-16	0937	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B350Y4	N	W	5-26-16	0937	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W 3140
W 01103

Relinquished By Karen Campbell CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	Received By Frank Hall CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	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
Relinquished By Frank Hall CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	MAY 26 2016	Received By <i>[Signature]</i>	J. Bock, TARL	<i>[Signature]</i>	MAY 26 2016	
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

C.O.C. #
S16-005-190

Page 1 of 1

Collector Karen Campbell <small>CHPRC</small>	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071	
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 85/77	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 SURV	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 Hold Time Total Activity Exemption: Yes No
 N/A
 Special Handling: N/A

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35106	N	W	5-26-16	1020	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35110	Y	W	5-26-16	1020	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

3140
W21103

Relinquished By Karen Campbell <small>CHPRC</small>	Print	Sign	Date/Time	Received By Frank Hall <small>CHPRC</small>	Print	Sign	Date/Time	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By Frank Hall <small>CHPRC</small>			Date/Time MAY 26 2016 1100	Received By J. Bock, TARL			Date/Time MAY 26 2016 1400	DS = Drum Solids DL = Drum Liquids T = Tissue WI = 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



CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-188
Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 <u>83/77</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	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY		
*** Combustible/ 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
B35109	Y	W	5-26-16	0715	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35105	N	W	5-26-16	0715	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#2 8140
321133

Relinquished By	Karen Campbell CHPRC	Print	Sign	Date/Time	MAY 26 2016 1100	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	MAY 26 2016 1100
Relinquished By	Frank Hall CHPRC			Date/Time	MAY 26 2016 1100	Received By	J. Bock, TARL			Date/Time	MAY 26 2016 1100
Relinquished By				Date/Time		Received By				Date/Time	

Matrix *
 S = Soil DS = Drum Solids
 SE = Sediment DL = Drum Liquids
 SO = Solid T = Tissue
 SL = Sludge WL = Wipe
 W = Water L = Liquid
 O = Oil V = Vegetation
 A = Air 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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CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-197

Page 1 of 1

Collector	D.L. Foyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 <u>85 / 63</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	SURV	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			N/A Special Handling: N/A		
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
B35129	Y	W	5/26/16	0925	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35128	N	W	↓	↓	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3140
W61103

Relinquished By	D.L. Foyd/CHPRC	Print	Sign	Date/Time	1/14/16	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	MAY 26 2016	Received By	J. Bock, TARL	Print	Sign	Date/Time	MAY 26 2016	Received By		Date/Time	MAY 26 2016
Relinquished By	Frank Hall CHPRC					Received By						Received By						Received By			

- Matrix *
- S = Soil
 - SE = Sediment
 - SO = Solid
 - SL = Sludge
 - W = Water
 - O = Oil
 - A = Air
 - DS = Drumm Solids
 - DL = Drumm 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

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-005-229

Page 1 of 1

Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 <u>85 / 63</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	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		N/A Special Handling: N/A			

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B351C9	N	W	5/26/16	1:29	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B351D0	Y	W			1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

3140
W2E1153

Relinquished By	D.L. Floyd/CHPRC	Print	Sign	Date/Time	11/40	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	1/46	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
Relinquished By	Frank Hall CHPRC			MAY 26 2016		Received By	J. Bock, TARL			MAY 26 2016		
Relinquished By						Received By						

Relinquished By		Date/Time	Received By		Date/Time
Relinquished By			Received By		
FINAL SAMPLE DISPOSITION		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. #
S16-004-259
Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-004	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, APRIL 2016	Logbook No.	HNF-N-506 <u>83177</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			N/A		
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
B34LK4	Y	W	5-26-16	0915	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B34LK3	N	W	5-26-16	0915	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W 3140
WCC1103

Relinquished By	Karen Campbell CHPRC	Print	Sign	Date/Time	1100 MAY 26 2016	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	1100 MAY 26 2016	Matrix *
Relinquished By	Frank Hall CHPRC			Date/Time	MAY 26 2016	Received By	J. Bock, TARL			Date/Time	MAY 26 2016	Matrix *
Relinquished By				Date/Time		Received By				Date/Time		Matrix *
Relinquished By				Date/Time		Received By				Date/Time		Matrix *
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)												
Disposed By: _____ Date/Time: _____												

- 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



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-004-240
Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-004	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, APRIL 2016	Logbook No.	HNF-N-506 <u>83/77</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			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
B34LB1	N	W	5-26-16	0950	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B34LB2	Y	W	5-26-16	0956	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W3140
W31103

Reinquished By	Karen Campbell CHPRC	Print	Sign	Date/Time	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	Matrix *
Reinquished By	Frank Hall CHPRC			MAY 26 2016 1100	Received By	J. Bock, TARL			MAY 26 2016 1400	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
Reinquished 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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CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
II6-023-316
Page 1 of 1

Collector	DL Foydc/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650			
SAF No.	II6-023	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071			
Project Title	100KR4, MAY 2016	Logbook No.	HNF-N-506 <u>85 / 63</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		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		SPECIAL INSTRUCTIONS		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
		N/A		Special Handling: N/A				
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B350W4	N	W	5/26/16	0825	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

Handwritten: \$ 31110
2221103

Reinquished By	DL Foydc/CHPRC	Print	Sign	Date/Time	11/40	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	11/40	Matrix *
Reinquished By	Frank Hall CHPRC	[Signature]	[Signature]	MAY 26 2016	1140	Received By	J. Bock, TARI	[Signature]	[Signature]	MAY 26 2016	1140	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue W1 = Wipe L = Liquid V = Vegetation X = Other
Reinquished By				MAY 26 2016	1140	Received By				MAY 26 2016	1140	

FINAL SAMPLE DISPOSITION 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. #
S16-005-184
Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>83</u> / <u>77</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 SURV	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		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample No. B350Y3	Filter N	Date W
	No/Type Container 1X500-ml P	Sample Analysis 300.0_ANIONS_IC: COMMON
	Time 0937	Holding Time 48 Hours
	Preservative Cool <=6C	

3110
20E1153

Relinquished By Karen Campbell CHPRC	Print Karen Campbell	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	Received By Lesly West CHPRC	Print Lesly West	Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1100	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
Relinquished By Lesly West CHPRC	<i>[Signature]</i>		Date/Time MAY 26 2016 1400	Received By J. Bock, TARL		Sign <i>[Signature]</i>	Date/Time MAY 26 2016 1400	
Relinquished By			Date/Time	Received By			Date/Time	

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2M/Hill Plateau Remediation Company

C.O.C. #
S16-005-187
Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071	
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>83/77</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 SURV	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
B35103	N	W	5-26-16	0715	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 02	48 Hours	Cool <=6C

3140
354103

Relinquished By Karen Campbell CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By Lesly West CHPRC		<i>[Signature]</i>	MAY 26 2016 1100	Received By Lesly West CHPRC		<i>[Signature]</i>	MAY 26 2016 1100
Relinquished By		<i>[Signature]</i>	MAY 26 2016 1400	Received By J. Bock, TARL		<i>[Signature]</i>	MAY 26 2016 1400
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 _____



CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-189

Page 1 of 1

Collector	Karen Campbell CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-005	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MAY 2016	Logbook No.	HNF-N-506 <u>831 77</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	SURV	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			N/A Special Handling: N/A		
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
B35104	N	W	5-16-16	1020	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 02	48 Hours	Cool <=6C

3110
wsc 1153

Relinquished By	Print Karen Campbell CHPRC	Sign <i>Karen Campbell</i>	Date/Time MAY 16 2016 1100	Received By	Print Leah West CHPRC	Sign <i>Leah West</i>	Date/Time MAY 16 2016 1100	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
Relinquished By	Print Leah West CHPRC	Sign <i>Leah West</i>	Date/Time MAY 26 2016 1100	Received By	Print J. Bock, TARL	Sign <i>J. Bock</i>	Date/Time MAY 26 2016 1100	

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CH2M Hill Plateau Remediation Company

C.O.C. #
S16-005-217
Page 1 of 1

Collector Karen Campbell CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650	
SAF No. S16-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071	
Project Title SURV, MAY 2016	Logbook No. HNF-N-506 <u>73 / 77</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 SURV	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
B35183	N	W	5-26-16	0845	1x500-ml P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 02	48 Hours	Cool <=6C

31110
W2E1103

Relinquished By Karen Campbell CHPRC	Print 	Sign	Date/Time MAY 26 2016 1100	Received By J. Bock, TARL	Print 	Sign	Date/Time MAY 26 2016 1100
Relinquished By Lesly West			Date/Time MAY 26 2016 1400	Received By J. Bock, TARL			Date/Time MAY 26 2016 1400
Relinquished By			Date/Time	Received By			Date/Time

- 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)
Disposited By	Date/Time



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-005-215

Page 1 of 1

CH2M/Hill Plateau Remediation Company		Collector Karen Campbell CHPRC		Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-005	Project Title SURV, MAY 2016	Sampling Origin Hanford Site	Logbook No. HNF-N-506 <u>82 / 77</u>	Purchase Order/Charge Code 300071	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Priority: 30 Days	PRIORITY	Bill of Lading/Air Bill No. N/A	Offsite Property No. N/A
Protocol SURV		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 438.1		SPECIAL INSTRUCTIONS N/A Special Handling: N/A	
Sample No. B35182	Filter N	Date 5-16-16	Time 0845	No./Type Container 1x500-ml P	Sample Analysis 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02
				Holding Time 48 Hours	Preservative Cool <=6C
				Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

31110
we 1103

Relinquished By Karen Campbell CHPRC	Print	Sign	Date/Time MAY 26 2016 1100	Received By J. Bock, TARL	Print	Sign	Date/Time MAY 26 2016 1400	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	
Relinquished By Leah Wald CHPRC	Print	Sign	Date/Time MAY 26 2016 1400	Received By Leah Wald CHPRC	Print	Sign	Date/Time MAY 26 2016 1400		
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

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B351B5

Lab Sample ID: 300-3140-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B351B6

Lab Sample ID: 300-3140-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0025	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35194

Lab Sample ID: 300-3140-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.061		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35192

Lab Sample ID: 300-3140-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.062		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35148

Lab Sample ID: 300-3140-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0080		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35145

Lab Sample ID: 300-3140-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0074		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35184

Lab Sample ID: 300-3140-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.14		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35188

Lab Sample ID: 300-3140-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.14		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35189

Lab Sample ID: 300-3140-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.14		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35185

Lab Sample ID: 300-3140-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.14		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B350Y6

Lab Sample ID: 300-3140-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.14		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B350Y6 (Continued)

Lab Sample ID: 300-3140-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0031	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B350Y4

Lab Sample ID: 300-3140-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0031	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35106

Lab Sample ID: 300-3140-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.11		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35110

Lab Sample ID: 300-3140-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.11		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35109

Lab Sample ID: 300-3140-15

No Detections.

Client Sample ID: B35105

Lab Sample ID: 300-3140-16

No Detections.

Client Sample ID: B35129

Lab Sample ID: 300-3140-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0056		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35128

Lab Sample ID: 300-3140-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0056		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B351C9

Lab Sample ID: 300-3140-19

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: B351D0

Lab Sample ID: 300-3140-20

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: B34LK4

Lab Sample ID: 300-3140-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0051		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B34LK3

Lab Sample ID: 300-3140-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0049		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B34LB1

Lab Sample ID: 300-3140-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0017	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B34LB2

Lab Sample ID: 300-3140-24

No Detections.

Client Sample ID: B350W4

Lab Sample ID: 300-3140-25

No Detections.

Client Sample ID: B350Y3

Lab Sample ID: 300-3140-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.37	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	9.6	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35103

Lab Sample ID: 300-3140-27

No Detections.

Client Sample ID: B35104

Lab Sample ID: 300-3140-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	190	D	2.5	1.3	mg/L	10		300.0	Total/NA
Bromide	0.22	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B35183

Lab Sample ID: 300-3140-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.5	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	160	D	2.5	1.3	mg/L	10		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B35182

Lab Sample ID: 300-3140-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.5	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

6/27/2016

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

Client Sample ID: B35182 (Continued)

Lab Sample ID: 300-3140-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	160	D	2.5	1.3	mg/L	10		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B351B5

Date Collected: 05/26/16 08:16
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L			05/27/16 11:37	1

Client Sample ID: B351B6

Date Collected: 05/26/16 08:16
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0025	B	0.0040	0.0015	mg/L			05/27/16 11:38	1

Client Sample ID: B35194

Date Collected: 05/26/16 08:06
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.061		0.0040	0.0015	mg/L			05/27/16 11:38	1

Client Sample ID: B35192

Date Collected: 05/26/16 08:06
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.062		0.0040	0.0015	mg/L			05/27/16 11:38	1

Client Sample ID: B35148

Date Collected: 05/26/16 08:27
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0080		0.0040	0.0015	mg/L			05/27/16 11:39	1

Client Sample ID: B35145

Date Collected: 05/26/16 08:27
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0074		0.0040	0.0015	mg/L			05/27/16 11:39	1

Client Sample ID: B35184

Date Collected: 05/26/16 08:45
 Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.14		0.0040	0.0015	mg/L			05/27/16 11:42	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

Client Sample ID: B35188

Date Collected: 05/26/16 08:45

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-8

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.14		0.0040	0.0015	mg/L			05/27/16 11:42	1

Client Sample ID: B35189

Date Collected: 05/26/16 08:45

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-9

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.14		0.0040	0.0015	mg/L			05/27/16 11:43	1

Client Sample ID: B35185

Date Collected: 05/26/16 08:45

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-10

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.14		0.0040	0.0015	mg/L			05/27/16 11:43	1

Client Sample ID: B350Y6

Date Collected: 05/26/16 09:37

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-11

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0031	B	0.0040	0.0015	mg/L			05/27/16 11:43	1

Client Sample ID: B350Y4

Date Collected: 05/26/16 09:37

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0031	B	0.0040	0.0015	mg/L			05/27/16 11:44	1

Client Sample ID: B35106

Date Collected: 05/26/16 10:20

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-13

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.11		0.0040	0.0015	mg/L			05/27/16 11:44	1

Client Sample ID: B35110

Date Collected: 05/26/16 10:20

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-14

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.11		0.0040	0.0015	mg/L			05/27/16 11:47	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

Client Sample ID: B35109

Lab Sample ID: 300-3140-15

Date Collected: 05/26/16 07:15

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			05/27/16 11:47	1

Client Sample ID: B35105

Lab Sample ID: 300-3140-16

Date Collected: 05/26/16 07:15

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			05/27/16 11:47	1

Client Sample ID: B35129

Lab Sample ID: 300-3140-17

Date Collected: 05/26/16 09:25

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0056		0.0040	0.0015	mg/L			05/27/16 11:48	1

Client Sample ID: B35128

Lab Sample ID: 300-3140-18

Date Collected: 05/26/16 09:25

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0056		0.0040	0.0015	mg/L			05/27/16 11:48	1

Client Sample ID: B351C9

Lab Sample ID: 300-3140-19

Date Collected: 05/26/16 11:29

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			05/27/16 11:49	1

Client Sample ID: B351D0

Lab Sample ID: 300-3140-20

Date Collected: 05/26/16 11:29

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			05/27/16 11:51	1

Client Sample ID: B34LK4

Lab Sample ID: 300-3140-21

Date Collected: 05/26/16 09:15

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0051		0.0040	0.0015	mg/L			05/27/16 11:53	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B34LK3

Lab Sample ID: 300-3140-22

Date Collected: 05/26/16 09:15

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0049		0.0040	0.0015	mg/L			05/27/16 11:53	1

Client Sample ID: B34LB1

Lab Sample ID: 300-3140-23

Date Collected: 05/26/16 09:50

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0017	B	0.0040	0.0015	mg/L			05/27/16 11:57	1

Client Sample ID: B34LB2

Lab Sample ID: 300-3140-24

Date Collected: 05/26/16 09:50

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			05/27/16 11:57	1

Client Sample ID: B350W4

Lab Sample ID: 300-3140-25

Date Collected: 05/26/16 08:25

Matrix: Water

Date Received: 05/26/16 14:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			05/27/16 11:57	1

Client Sample ID: B350Y3

Lab Sample ID: 300-3140-26

Date Collected: 05/26/16 09:37

Matrix: Water

Date Received: 05/26/16 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2	D	0.40	0.20	mg/L			05/27/16 13:40	2
Nitrate as N	0.37	D	0.056	0.028	mg/L			05/27/16 13:40	2
Fluoride	0.12	D	0.10	0.050	mg/L			05/27/16 13:40	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			05/27/16 13:40	2
Sulfate	9.6	D	0.50	0.25	mg/L			05/27/16 13:40	2

Client Sample ID: B35103

Lab Sample ID: 300-3140-27

Date Collected: 05/26/16 07:15

Matrix: Water

Date Received: 05/26/16 14:00

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			05/27/16 14:25	2
Nitrate as N	0.028	U D	0.056	0.028	mg/L			05/27/16 14:25	2
Fluoride	0.050	U D	0.10	0.050	mg/L			05/27/16 14:25	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			05/27/16 14:25	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			05/27/16 14:25	2
Sulfate	0.25	U D	0.50	0.25	mg/L			05/27/16 14:25	2
Bromide	0.13	U D	0.25	0.13	mg/L			05/27/16 14:25	2

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B35104

Lab Sample ID: 300-3140-28

Date Collected: 05/26/16 10:20

Matrix: Water

Date Received: 05/26/16 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			05/27/16 14:40	2
Nitrate as N	6.0	D	0.056	0.028	mg/L			05/27/16 14:40	2
Fluoride	0.12	D	0.10	0.050	mg/L			05/27/16 14:40	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			05/27/16 14:40	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			05/27/16 14:40	2
Sulfate	190	D	2.5	1.3	mg/L			05/27/16 17:25	10
Bromide	0.22	B D	0.25	0.13	mg/L			05/27/16 14:40	2

Client Sample ID: B35183

Lab Sample ID: 300-3140-29

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	0.40	0.20	mg/L			05/27/16 14:55	2
Nitrate as N	6.5	D	0.056	0.028	mg/L			05/27/16 14:55	2
Fluoride	0.12	D	0.10	0.050	mg/L			05/27/16 14:55	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			05/27/16 14:55	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			05/27/16 14:55	2
Sulfate	160	D	2.5	1.3	mg/L			05/27/16 17:41	10
Bromide	0.21	B D	0.25	0.13	mg/L			05/27/16 14:55	2

Client Sample ID: B35182

Lab Sample ID: 300-3140-30

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	0.40	0.20	mg/L			05/27/16 15:10	2
Nitrate as N	6.5	D	0.056	0.028	mg/L			05/27/16 15:10	2
Fluoride	0.12	D	0.10	0.050	mg/L			05/27/16 15:10	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			05/27/16 15:10	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			05/27/16 15:10	2
Sulfate	160	D	2.5	1.3	mg/L			05/27/16 17:56	10
Bromide	0.21	B D	0.25	0.13	mg/L			05/27/16 15:10	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4349/5

Matrix: Water

Analysis Batch: 4349

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			05/27/16 13:10	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			05/27/16 13:10	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			05/27/16 13:10	1

Lab Sample ID: LCS 300-4349/6

Matrix: Water

Analysis Batch: 4349

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	2.32		mg/L		103	80 - 120
Nitrite as N	3.04	3.14		mg/L		103	80 - 120
Orthophosphate as P	6.53	6.72		mg/L		103	80 - 120

Lab Sample ID: 300-3140-26 MS

Matrix: Water

Analysis Batch: 4349

Client Sample ID: B350Y3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.37	D	0.452	0.821	D	mg/L		99	75 - 125
Nitrite as N	0.038	U D	0.609	0.561	D	mg/L		92	75 - 125
Orthophosphate as P	0.082	U D	1.31	1.20	D	mg/L		92	75 - 125

Lab Sample ID: 300-3140-26 DU

Matrix: Water

Analysis Batch: 4349

Client Sample ID: B350Y3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.37	D	0.370	D	mg/L		0.9	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20
Orthophosphate as P	0.082	U D	0.082	U D	mg/L		NC	20

Lab Sample ID: MB 300-4350/5

Matrix: Water

Analysis Batch: 4350

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			05/27/16 13:10	1
Fluoride	0.025	U	0.050	0.025	mg/L			05/27/16 13:10	1
Sulfate	0.13	U	0.25	0.13	mg/L			05/27/16 13:10	1
Bromide	0.063	U	0.13	0.063	mg/L			05/27/16 13:10	1

Lab Sample ID: LCS 300-4350/6

Matrix: Water

Analysis Batch: 4350

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	16.1		mg/L		101	80 - 120
Fluoride	4.00	4.06		mg/L		102	80 - 120
Sulfate	20.0	20.3		mg/L		101	80 - 120

TestAmerica Richland

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-4350/6
 Matrix: Water
 Analysis Batch: 4350

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: 300-3140-26 MS
 Matrix: Water
 Analysis Batch: 4350

Client Sample ID: B350Y3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.2	D	3.20	4.42	D	mg/L		99	75 - 125
Fluoride	0.12	D	0.800	0.859	D	mg/L		92	75 - 125
Sulfate	9.6	D	4.00	13.7	D	mg/L		105	75 - 125
Bromide	0.13	U D	2.00	1.84	D	mg/L		92	75 - 125

Lab Sample ID: 300-3140-26 DU
 Matrix: Water
 Analysis Batch: 4350

Client Sample ID: B350Y3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	1.2	D	1.24	D	mg/L		0.4	20
Fluoride	0.12	D	0.119	D	mg/L		0.5	20
Sulfate	9.6	D	9.50	D	mg/L		0.6	20
Bromide	0.13	U D	0.13	U D	mg/L		NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4356/3
 Matrix: Water
 Analysis Batch: 4356

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			05/27/16 11:34	1

Lab Sample ID: MB 300-4356/31
 Matrix: Water
 Analysis Batch: 4356

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			05/27/16 11:52	1

Lab Sample ID: LCS 300-4356/32
 Matrix: Water
 Analysis Batch: 4356

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	0.252		mg/L		101	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 300-4356/4
 Matrix: Water
 Analysis Batch: 4356

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	0.251		mg/L		101	80 - 120

Lab Sample ID: 300-3140-1 MS
 Matrix: Water
 Analysis Batch: 4356

Client Sample ID: B351B5
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0026	B	0.0500	0.0532		mg/L		101	75 - 125

Lab Sample ID: 300-3140-21 MS
 Matrix: Water
 Analysis Batch: 4356

Client Sample ID: B34LK4
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0051		0.0500	0.0558		mg/L		101	75 - 125

Lab Sample ID: 300-3140-1 DU
 Matrix: Water
 Analysis Batch: 4356

Client Sample ID: B351B5
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0026	B	0.00260	B	mg/L		0	20

Lab Sample ID: 300-3140-21 DU
 Matrix: Water
 Analysis Batch: 4356

Client Sample ID: B34LK4
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0051		0.00440		mg/L		15	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

HPLC/IC

Analysis Batch: 4349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3140-26	B350Y3	Total/NA	Water	300.0	
300-3140-26 DU	B350Y3	Total/NA	Water	300.0	
300-3140-26 MS	B350Y3	Total/NA	Water	300.0	
300-3140-27	B35103	Total/NA	Water	300.0	
300-3140-28	B35104	Total/NA	Water	300.0	
300-3140-29	B35183	Total/NA	Water	300.0	
300-3140-30	B35182	Total/NA	Water	300.0	
LCS 300-4349/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4349/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3140-26	B350Y3	Total/NA	Water	300.0	
300-3140-26 DU	B350Y3	Total/NA	Water	300.0	
300-3140-26 MS	B350Y3	Total/NA	Water	300.0	
300-3140-27	B35103	Total/NA	Water	300.0	
300-3140-28	B35104	Total/NA	Water	300.0	
300-3140-28	B35104	Total/NA	Water	300.0	
300-3140-29	B35183	Total/NA	Water	300.0	
300-3140-29	B35183	Total/NA	Water	300.0	
300-3140-30	B35182	Total/NA	Water	300.0	
300-3140-30	B35182	Total/NA	Water	300.0	
LCS 300-4350/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4350/5	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3140-1	B351B5	Total/NA	Water	7196A	
300-3140-1 DU	B351B5	Total/NA	Water	7196A	
300-3140-1 MS	B351B5	Total/NA	Water	7196A	
300-3140-2	B351B6	Total/NA	Water	7196A	
300-3140-3	B35194	Total/NA	Water	7196A	
300-3140-4	B35192	Total/NA	Water	7196A	
300-3140-5	B35148	Total/NA	Water	7196A	
300-3140-6	B35145	Total/NA	Water	7196A	
300-3140-7	B35184	Total/NA	Water	7196A	
300-3140-8	B35188	Total/NA	Water	7196A	
300-3140-9	B35189	Total/NA	Water	7196A	
300-3140-10	B35185	Total/NA	Water	7196A	
300-3140-11	B350Y6	Total/NA	Water	7196A	
300-3140-12	B350Y4	Total/NA	Water	7196A	
300-3140-13	B35106	Total/NA	Water	7196A	
300-3140-14	B35110	Total/NA	Water	7196A	
300-3140-15	B35109	Total/NA	Water	7196A	
300-3140-16	B35105	Total/NA	Water	7196A	
300-3140-17	B35129	Total/NA	Water	7196A	
300-3140-18	B35128	Total/NA	Water	7196A	
300-3140-19	B351C9	Total/NA	Water	7196A	

TestAmerica Richland

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

General Chemistry (Continued)

Analysis Batch: 4356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3140-20	B351D0	Total/NA	Water	7196A	
300-3140-21	B34LK4	Total/NA	Water	7196A	
300-3140-21 DU	B34LK4	Total/NA	Water	7196A	
300-3140-21 MS	B34LK4	Total/NA	Water	7196A	
300-3140-22	B34LK3	Total/NA	Water	7196A	
300-3140-23	B34LB1	Total/NA	Water	7196A	
300-3140-24	B34LB2	Total/NA	Water	7196A	
300-3140-25	B350W4	Total/NA	Water	7196A	
LCS 300-4356/32	Lab Control Sample	Total/NA	Water	7196A	
LCS 300-4356/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4356/3	Method Blank	Total/NA	Water	7196A	
MB 300-4356/31	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B351B5

Date Collected: 05/26/16 08:16

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-1

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			4356	05/27/16 11:37	RLC	TAL RCH

Client Sample ID: B351B6

Date Collected: 05/26/16 08:16

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-2

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			4356	05/27/16 11:38	RLC	TAL RCH

Client Sample ID: B35194

Date Collected: 05/26/16 08:06

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-3

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			4356	05/27/16 11:38	RLC	TAL RCH

Client Sample ID: B35192

Date Collected: 05/26/16 08:06

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-4

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			4356	05/27/16 11:38	RLC	TAL RCH

Client Sample ID: B35148

Date Collected: 05/26/16 08:27

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-5

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			4356	05/27/16 11:39	RLC	TAL RCH

Client Sample ID: B35145

Date Collected: 05/26/16 08:27

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-6

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			4356	05/27/16 11:39	RLC	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B35184

Lab Sample ID: 300-3140-7

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:42	RLC	TAL RCH

Client Sample ID: B35188

Lab Sample ID: 300-3140-8

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:42	RLC	TAL RCH

Client Sample ID: B35189

Lab Sample ID: 300-3140-9

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:43	RLC	TAL RCH

Client Sample ID: B35185

Lab Sample ID: 300-3140-10

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:43	RLC	TAL RCH

Client Sample ID: B350Y6

Lab Sample ID: 300-3140-11

Date Collected: 05/26/16 09:37

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:43	RLC	TAL RCH

Client Sample ID: B350Y4

Lab Sample ID: 300-3140-12

Date Collected: 05/26/16 09:37

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:44	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B35106

Date Collected: 05/26/16 10:20

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-13

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			4356	05/27/16 11:44	RLC	TAL RCH

Client Sample ID: B35110

Date Collected: 05/26/16 10:20

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-14

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			4356	05/27/16 11:47	RLC	TAL RCH

Client Sample ID: B35109

Date Collected: 05/26/16 07:15

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			4356	05/27/16 11:47	RLC	TAL RCH

Client Sample ID: B35105

Date Collected: 05/26/16 07:15

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			4356	05/27/16 11:47	RLC	TAL RCH

Client Sample ID: B35129

Date Collected: 05/26/16 09:25

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-17

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			4356	05/27/16 11:48	RLC	TAL RCH

Client Sample ID: B35128

Date Collected: 05/26/16 09:25

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-18

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			4356	05/27/16 11:48	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B351C9

Lab Sample ID: 300-3140-19

Date Collected: 05/26/16 11:29

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:49	RLC	TAL RCH

Client Sample ID: B351D0

Lab Sample ID: 300-3140-20

Date Collected: 05/26/16 11:29

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:51	RLC	TAL RCH

Client Sample ID: B34LK4

Lab Sample ID: 300-3140-21

Date Collected: 05/26/16 09:15

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:53	RLC	TAL RCH

Client Sample ID: B34LK3

Lab Sample ID: 300-3140-22

Date Collected: 05/26/16 09:15

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:53	RLC	TAL RCH

Client Sample ID: B34LB1

Lab Sample ID: 300-3140-23

Date Collected: 05/26/16 09:50

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:57	RLC	TAL RCH

Client Sample ID: B34LB2

Lab Sample ID: 300-3140-24

Date Collected: 05/26/16 09:50

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:57	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B350W4

Date Collected: 05/26/16 08:25

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-25

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			4356	05/27/16 11:57	RLC	TAL RCH

Client Sample ID: B350Y3

Date Collected: 05/26/16 09:37

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-26

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		4349	05/27/16 13:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 13:40	CPM	TAL RCH

Client Sample ID: B35103

Date Collected: 05/26/16 07:15

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-27

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		4349	05/27/16 14:25	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 14:25	CPM	TAL RCH

Client Sample ID: B35104

Date Collected: 05/26/16 10:20

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-28

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		4349	05/27/16 14:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 14:40	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4350	05/27/16 17:25	CPM	TAL RCH

Client Sample ID: B35183

Date Collected: 05/26/16 08:45

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-29

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		4349	05/27/16 14:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 14:55	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4350	05/27/16 17:41	CPM	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B35182

Lab Sample ID: 300-3140-30

Date Collected: 05/26/16 08:45

Matrix: Water

Date Received: 05/26/16 14:00

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		4349	05/27/16 15:10	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 15:10	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4350	05/27/16 17:56	CPM	TAL RCH

Client Sample ID: B351B5

Lab Sample ID: 300-3140-1 DU

Date Collected: 05/26/16 08:16

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:37	RLC	TAL RCH

Client Sample ID: B34LK4

Lab Sample ID: 300-3140-21 DU

Date Collected: 05/26/16 09:15

Matrix: Water

Date Received: 05/26/16 14:00

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			4356	05/27/16 11:53	RLC	TAL RCH

Client Sample ID: B350Y3

Lab Sample ID: 300-3140-26 DU

Date Collected: 05/26/16 09:37

Matrix: Water

Date Received: 05/26/16 14:00

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		4349	05/27/16 14:10	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 14:10	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4349/6

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		4349	05/27/16 13:25	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4350/6

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		4350	05/27/16 13:25	CPM	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4356/32

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			4356	05/27/16 11:52	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4356/4

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			4356	05/27/16 11:34	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4349/5

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		4349	05/27/16 13:10	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4350/5

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		4350	05/27/16 13:10	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4356/3

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			4356	05/27/16 11:34	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4356/31

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			4356	05/27/16 11:52	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Client Sample ID: B351B5

Date Collected: 05/26/16 08:16

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-1 MS

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	4356	05/27/16 11:34	RLC	TAL RCH

Client Sample ID: B34LK4

Date Collected: 05/26/16 09:15

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-21 MS

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	4356	05/27/16 11:52	RLC	TAL RCH

Client Sample ID: B350Y3

Date Collected: 05/26/16 09:37

Date Received: 05/26/16 14:00

Lab Sample ID: 300-3140-26 MS

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		4349	05/27/16 13:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4350	05/27/16 13:55	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: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
SDG: WC1103

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: S16-005/S16-004/I16-023

TestAmerica Job ID: 300-3140-1
 SDG: WC1103

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3140-1	B351B5	Water	05/26/16 08:16	05/26/16 14:00
300-3140-2	B351B6	Water	05/26/16 08:16	05/26/16 14:00
300-3140-3	B35194	Water	05/26/16 08:06	05/26/16 14:00
300-3140-4	B35192	Water	05/26/16 08:06	05/26/16 14:00
300-3140-5	B35148	Water	05/26/16 08:27	05/26/16 14:00
300-3140-6	B35145	Water	05/26/16 08:27	05/26/16 14:00
300-3140-7	B35184	Water	05/26/16 08:45	05/26/16 14:00
300-3140-8	B35188	Water	05/26/16 08:45	05/26/16 14:00
300-3140-9	B35189	Water	05/26/16 08:45	05/26/16 14:00
300-3140-10	B35185	Water	05/26/16 08:45	05/26/16 14:00
300-3140-11	B350Y6	Water	05/26/16 09:37	05/26/16 14:00
300-3140-12	B350Y4	Water	05/26/16 09:37	05/26/16 14:00
300-3140-13	B35106	Water	05/26/16 10:20	05/26/16 14:00
300-3140-14	B35110	Water	05/26/16 10:20	05/26/16 14:00
300-3140-15	B35109	Water	05/26/16 07:15	05/26/16 14:00
300-3140-16	B35105	Water	05/26/16 07:15	05/26/16 14:00
300-3140-17	B35129	Water	05/26/16 09:25	05/26/16 14:00
300-3140-18	B35128	Water	05/26/16 09:25	05/26/16 14:00
300-3140-19	B351C9	Water	05/26/16 11:29	05/26/16 14:00
300-3140-20	B351D0	Water	05/26/16 11:29	05/26/16 14:00
300-3140-21	B34LK4	Water	05/26/16 09:15	05/26/16 14:00
300-3140-22	B34LK3	Water	05/26/16 09:15	05/26/16 14:00
300-3140-23	B34LB1	Water	05/26/16 09:50	05/26/16 14:00
300-3140-24	B34LB2	Water	05/26/16 09:50	05/26/16 14:00
300-3140-25	B350W4	Water	05/26/16 08:25	05/26/16 14:00
300-3140-26	B350Y3	Water	05/26/16 09:37	05/26/16 14:00
300-3140-27	B35103	Water	05/26/16 07:15	05/26/16 14:00
300-3140-28	B35104	Water	05/26/16 10:20	05/26/16 14:00
300-3140-29	B35183	Water	05/26/16 08:45	05/26/16 14:00
300-3140-30	B35182	Water	05/26/16 08:45	05/26/16 14:00

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3140-1

SDG Number: WC1103

Login Number: 3140

List Number: 1

Creator: Bock, Julie A

List Source: TestAmerica Richland

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