

July 18, 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: 300-3349-1

TestAmerica Sample Delivery Group: WC1198

Client Project/Site: X16-037

For:

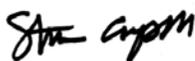
CH2M Hill Plateau Remediation Company

PO BOX 1600

Mail Stop R3-50

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

7/18/2016 9:55:00 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

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Chain of Custody	5
Detection Summary	13
Client Sample Results	15
QC Sample Results	17
QC Association Summary	19
Lab Chronicle	20
Method Summary	24
Sample Summary	25
Receipt Checklists	26

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)



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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Job ID: 300-3349-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-3349-1**

Comments

No additional comments.

Receipt

The samples were received on 6/24/2016 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.6° C.

HPLC/IC

Method 300.0: The following samples required filtration to reduce matrix interferences: B35ML7 (300-3349-9) and B35VL5 (300-3349-10).

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

General Chemistry

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



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-142
Page 1 of 1

Collector	Juan Aguilar <i>CHPRC</i>	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-K-W Rebound Study, May 31, 2016	Logbook No.	HNF-N-506 <u>79/28</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 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
B35MK6	Y	W	6-24-16	0837	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35MK2	N	W	6-24-16	0837	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

July 18, 2016

3349
USE 1198

300-3349 COC



Relinquished By	Juan Aguilar <i>CHPRC</i>	Sign	Date/Time	Received By	Janelle Zunker <i>CHPRC</i>	Sign	Date/Time	Matrix *
Relinquished By	Janelle Zunker <i>CHPRC</i>	Sign	JUN 24 2016 1010	Received By	Janelle Zunker <i>CHPRC</i>	Sign	JUN 24 2016 1510	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Janelle Zunker <i>CHPRC</i>	Sign	JUN 24 2016 1500	Received By	J. Bock, TARL	Sign	JUN 24 2016 1500	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By		Sign	Date/Time	Received By		Sign	Date/Time	

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

Collector	<i>Jean Aguilar</i> CHPRC	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>79/28</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
B35ML2	N	W	6-24-16	0909	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35ML4	Y	W	6-24-16	0909	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

July 18, 2016

3349
W21195

Relinquished By	<i>Jean Aguilar</i> CHPRC	Print	Signature	Date/Time	Received By	<i>Janelle Zunker</i> CHPRC	Print	Signature	Date/Time	Matrix *
Relinquished By	<i>Janelle Zunker</i> CHPRC	Signature	Print	Date/Time	Received By	<i>J. Bock, TAST</i>	Signature	Date/Time	Date/Time	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		Date/Time			
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)										

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X16-037-148**
Page 1 of 1

Collector	<i>Juan Aguilera</i> <i>eHydra</i>	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>79/28</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
B35ML8	N	W	6-24-16	0931	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35MM0	Y	W	6-24-16	0931	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

July 18, 2016

3349
well194

Relinquished By	<i>CHYZE</i>	Print	Sign	Date/Time	Received By	<i>Janelle Zunker</i>	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>Janelle Zunker</i>	CHPRC		JUN 24 2016 1010	Received By	<i>J. Bock, TART</i>			JUN 24 2016 1500	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					Received By					
Relinquished By					Received By					
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)									Date/Time



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-147
Page 1 of 1

Collector	<i>Juan Aguilar</i> <i>CHPRC</i>	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>79/28</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 438.1			SPECIAL INSTRUCTIONS N/A Special Handling: N/A		
Sample No.	Filter	Date	No/Type Container	Sample Analysis	Holding Time
B35ML7	N	<i>6-24-16</i>	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours
					Preservative Cool <=6C

*3349
WCL194*

July 18, 2016

Relinquished By	<i>Juan Aguilar</i> <i>CHPRC</i>	Sign	<i>Juan Aguilar</i>	Date/Time	<i>JUN 24 2016 1010</i>	Received By	Janelle Zunker CHPRC	Sign	<i>Janelle Zunker</i>	Date/Time	<i>JUN 24 2016 1010</i>	Matrix *
Relinquished By	Janelle Zunker CHPRC	Sign	<i>Janelle Zunker</i>	Date/Time	<i>JUN 24 2016 1500</i>	Received By	J. Bock, TARI	Sign	<i>J. Bock, TARI</i>	Date/Time	<i>JUN 24 2016 1500</i>	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						

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.#
X16-037-192
Page 1 of 1

Collector	Juan Aguilar <i>chpac</i>	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>79/28</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		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35VL5	N	W	6-24-16	0909	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

3349
W0C1195

July 18, 2016

Relinquished By	<i>chpac</i> Print	Sign	Date/Time	Received By	<i>Janelle Zunker</i> Print	Sign	Date/Time	Matrix *
Relinquished By	Juan Aguilar		JUN 24 2016 1010	Received By	Janelle Zunker		JUN 24 2016 1010	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Janelle Zunker		JUN 24 2016 1500	Received By	<i>Janelle Zunker</i>		JUN 24 2016 1500	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				Received By				

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



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-141
Page 1 of 1

Collector	Juan Aguilar CHPRC	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>79/28</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
B35MK0	N	6-24-16	0837	1x500-ml P	300.0_ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

July 18, 2016

3349
used

Relinquished By	Juan Aguilar CHPRC	Print	Sign	Date/Time	Received By	Janelle Zunker CHPRC	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>Janelle Zunker</i>			JUN 24 2016 1010	Received By	<i>Janelle Zunker</i>			JUN 24 2016 1010	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>Janelle Zunker</i>			JUN 24 2015 1500	Received By	<i>J. Bock, TARL</i>			JUN 24 2015 1500	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By					Received By					
FINAL SAMPLE DISPOSITION										
Disposed Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By					



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-037-143
Page 1 of 1

Collector	<i>Juan Aguilera</i> CH2M	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 <i>79/ase</i>	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		
			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
B35MK1	N	W	6-24-16	0837	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

July 18, 2016

3349
USE 1199

Relinquished By	<i>Juan Aguilera</i> CH2M	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	<i>Janelle Zunker</i> CH2M	<i>Janelle Zunker</i>		JUN 24 2016 1010	<i>Janelle Zunker</i> CH2M	<i>Janelle Zunker</i>		JUN 24 2016 1010	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>Janelle Zunker</i> CH2M	<i>Janelle Zunker</i>		JUN 24 2016 1500	<i>J. Bock, TARL</i>	<i>J. Bock, TARL</i>		JUN 24 2016 1500	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other

Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

July 18, 2016
Detection Summary

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: B35MK6

Lab Sample ID: 300-3349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0020	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MK2

Lab Sample ID: 300-3349-2

No Detections.

Client Sample ID: B35MK7

Lab Sample ID: 300-3349-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0022	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35MK3

Lab Sample ID: 300-3349-4

No Detections.

Client Sample ID: B35ML2

Lab Sample ID: 300-3349-5

No Detections.

Client Sample ID: B35ML4

Lab Sample ID: 300-3349-6

No Detections.

Client Sample ID: B35ML8

Lab Sample ID: 300-3349-7

No Detections.

Client Sample ID: B35MM0

Lab Sample ID: 300-3349-8

No Detections.

Client Sample ID: B35ML7

Lab Sample ID: 300-3349-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.33	B D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.062	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.088	B D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	9.3	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35VL5

Lab Sample ID: 300-3349-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.72	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.062	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	11	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35MK0

Lab Sample ID: 300-3349-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.1	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.073	D	0.056	0.028	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

~~July 18, 2016~~
Detection Summary

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

TestAmerica Job ID: 300-3349-1
 SDG: WC1198

Client Sample ID: B35MK0 (Continued)

Lab Sample ID: 300-3349-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.17	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	13	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35MK1

Lab Sample ID: 300-3349-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.0	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.073	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.17	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	13	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland



July 18, 2016
Client Sample Results

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: B35MK6
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0020	B	0.0040	0.0015	mg/L			06/24/16 17:01	1

Client Sample ID: B35MK2
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:01	1

Client Sample ID: B35MK7
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0022	B	0.0040	0.0015	mg/L			06/24/16 17:02	1

Client Sample ID: B35MK3
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:02	1

Client Sample ID: B35ML2
Date Collected: 06/24/16 09:09
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:02	1

Client Sample ID: B35ML4
Date Collected: 06/24/16 09:09
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:05	1

Client Sample ID: B35ML8
Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:05	1

TestAmerica Richland

July 18, 2016
Client Sample Results

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: B35MM0
Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 17:06	1

Client Sample ID: B35ML7
Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-9
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.33	B D	0.40	0.20	mg/L			06/24/16 20:51	2
Nitrate as N	0.062	D	0.056	0.028	mg/L			06/24/16 20:51	2
Fluoride	0.088	B D	0.10	0.050	mg/L			06/24/16 20:51	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/24/16 20:51	2
Sulfate	9.3	D	0.50	0.25	mg/L			06/24/16 20:51	2

Client Sample ID: B35VL5
Date Collected: 06/24/16 09:09
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-10
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.72	D	0.40	0.20	mg/L			06/24/16 20:36	2
Nitrate as N	0.062	D	0.056	0.028	mg/L			06/24/16 20:36	2
Fluoride	0.12	D	0.10	0.050	mg/L			06/24/16 20:36	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/24/16 20:36	2
Sulfate	11	D	0.50	0.25	mg/L			06/24/16 20:36	2

Client Sample ID: B35MK0
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-11
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1	D	0.40	0.20	mg/L			06/24/16 20:21	2
Nitrate as N	0.073	D	0.056	0.028	mg/L			06/24/16 20:21	2
Fluoride	0.17	D	0.10	0.050	mg/L			06/24/16 20:21	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/24/16 20:21	2
Sulfate	13	D	0.50	0.25	mg/L			06/24/16 20:21	2

Client Sample ID: B35MK1
Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-12
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	D	0.40	0.20	mg/L			06/24/16 19:36	2
Nitrate as N	0.073	D	0.056	0.028	mg/L			06/24/16 19:36	2
Fluoride	0.17	D	0.10	0.050	mg/L			06/24/16 19:36	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/24/16 19:36	2
Sulfate	13	D	0.50	0.25	mg/L			06/24/16 19:36	2

TestAmerica Richland

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4693/29
Matrix: Water
Analysis Batch: 4693

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			06/24/16 19:07	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/24/16 19:07	1

Lab Sample ID: LCS 300-4693/30
Matrix: Water
Analysis Batch: 4693

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	2.26		mg/L		100	80 - 120
Nitrite as N	3.04	3.05		mg/L		100	80 - 120

Lab Sample ID: 300-3349-12 MS
Matrix: Water
Analysis Batch: 4693

Client Sample ID: B35MK1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.073	D	0.452	0.467	D	mg/L		87	75 - 125
Nitrite as N	0.038	U D	0.609	0.547	D	mg/L		90	75 - 125

Lab Sample ID: 300-3349-12 DU
Matrix: Water
Analysis Batch: 4693

Client Sample ID: B35MK1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.073	D	0.0730	D	mg/L		0.3	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-4694/29
Matrix: Water
Analysis Batch: 4694

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			06/24/16 19:07	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/24/16 19:07	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/24/16 19:07	1

Lab Sample ID: LCS 300-4694/30
Matrix: Water
Analysis Batch: 4694

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	15.7		mg/L		98	80 - 120
Fluoride	4.00	3.96		mg/L		99	80 - 120
Sulfate	20.0	19.8		mg/L		99	80 - 120

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3349-12 MS
Matrix: Water
Analysis Batch: 4694

Client Sample ID: B35MK1
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limit	Limit
Chloride	1.0	D	3.20	4.15	D	mg/L		97	75 - 125	
Fluoride	0.17	D	0.800	0.910	D	mg/L		92	75 - 125	
Sulfate	13	D	4.00	17.5	D	mg/L		108	75 - 125	

Lab Sample ID: 300-3349-12 DU
Matrix: Water
Analysis Batch: 4694

Client Sample ID: B35MK1
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				Limit	Limit
Chloride	1.0	D	1.04	D	mg/L		0.1	20	
Fluoride	0.17	D	0.171	D	mg/L		0	20	
Sulfate	13	D	13.2	D	mg/L		0.08	20	

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4697/3
Matrix: Water
Analysis Batch: 4697

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/24/16 16:52	1

Lab Sample ID: LCS 300-4697/4
Matrix: Water
Analysis Batch: 4697

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier				Limit	Limit
Cr (VI)	0.250	0.248		mg/L		99	80 - 120	

Lab Sample ID: 300-3347-A-1 MS
Matrix: Water
Analysis Batch: 4697

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limit	Limit
Cr (VI)	0.027		0.0499	0.0762		mg/L		99	75 - 125	

Lab Sample ID: 300-3347-A-1 DU
Matrix: Water
Analysis Batch: 4697

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				Limit	Limit
Cr (VI)	0.027		0.0278		mg/L		3	20	

July 18, 2016
QC Association Summary

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

HPLC/IC

Analysis Batch: 4693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3349-9	B35ML7	Total/NA	Water	300.0	
300-3349-10	B35VL5	Total/NA	Water	300.0	
300-3349-11	B35MK0	Total/NA	Water	300.0	
300-3349-12	B35MK1	Total/NA	Water	300.0	
300-3349-12 DU	B35MK1	Total/NA	Water	300.0	
300-3349-12 MS	B35MK1	Total/NA	Water	300.0	
LCS 300-4693/30	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4693/29	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3349-9	B35ML7	Total/NA	Water	300.0	
300-3349-10	B35VL5	Total/NA	Water	300.0	
300-3349-11	B35MK0	Total/NA	Water	300.0	
300-3349-12	B35MK1	Total/NA	Water	300.0	
300-3349-12 DU	B35MK1	Total/NA	Water	300.0	
300-3349-12 MS	B35MK1	Total/NA	Water	300.0	
LCS 300-4694/30	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4694/29	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3347-A-1 DU	Duplicate	Total/NA	Water	7196A	
300-3347-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-3349-1	B35MK6	Total/NA	Water	7196A	
300-3349-2	B35MK2	Total/NA	Water	7196A	
300-3349-3	B35MK7	Total/NA	Water	7196A	
300-3349-4	B35MK3	Total/NA	Water	7196A	
300-3349-5	B35ML2	Total/NA	Water	7196A	
300-3349-6	B35ML4	Total/NA	Water	7196A	
300-3349-7	B35ML8	Total/NA	Water	7196A	
300-3349-8	B35MM0	Total/NA	Water	7196A	
LCS 300-4697/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4697/3	Method Blank	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: B35MK6

Date Collected: 06/24/16 08:37

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-1

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			4697	06/24/16 17:01	RLC	TAL RCH

Client Sample ID: B35MK2

Date Collected: 06/24/16 08:37

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-2

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			4697	06/24/16 17:01	RLC	TAL RCH

Client Sample ID: B35MK7

Date Collected: 06/24/16 08:37

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-3

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			4697	06/24/16 17:02	RLC	TAL RCH

Client Sample ID: B35MK3

Date Collected: 06/24/16 08:37

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-4

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			4697	06/24/16 17:02	RLC	TAL RCH

Client Sample ID: B35ML2

Date Collected: 06/24/16 09:09

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-5

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			4697	06/24/16 17:02	RLC	TAL RCH

Client Sample ID: B35ML4

Date Collected: 06/24/16 09:09

Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-6

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			4697	06/24/16 17:05	RLC	TAL RCH

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: B35ML8

Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-7

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			4697	06/24/16 17:05	RLC	TAL RCH

Client Sample ID: B35MM0

Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-8

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			4697	06/24/16 17:06	RLC	TAL RCH

Client Sample ID: B35ML7

Date Collected: 06/24/16 09:31
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-9

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		4693	06/24/16 20:51	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 20:51	RLC	TAL RCH

Client Sample ID: B35VL5

Date Collected: 06/24/16 09:09
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-10

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		4693	06/24/16 20:36	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 20:36	RLC	TAL RCH

Client Sample ID: B35MK0

Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-11

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		4693	06/24/16 20:21	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 20:21	RLC	TAL RCH

Client Sample ID: B35MK1

Date Collected: 06/24/16 08:37
Date Received: 06/24/16 15:00

Lab Sample ID: 300-3349-12

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		4693	06/24/16 19:36	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 19:36	RLC	TAL RCH

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: Duplicate

Lab Sample ID: 300-3347-A-1 DU

Date Collected: 06/24/16 13:03

Matrix: Water

Date Received: 06/24/16 15:00

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			4697	06/24/16 16:56	RLC	TAL RCH

Client Sample ID: B35MK1

Lab Sample ID: 300-3349-12 DU

Date Collected: 06/24/16 08:37

Matrix: Water

Date Received: 06/24/16 15:00

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		4693	06/24/16 20:06	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 20:06	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4693/30

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		4693	06/24/16 19:22	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4694/30

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		4694	06/24/16 19:22	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4697/4

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			4697	06/24/16 16:52	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4693/29

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		4693	06/24/16 19:07	RLC	TAL RCH

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4694/29

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		4694	06/24/16 19:07	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4697/3

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			4697	06/24/16 16:52	RLC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3347-A-1 MS

Date Collected: 06/24/16 13:03

Matrix: Water

Date Received: 06/24/16 15:00

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		3.0 mL	4697	06/24/16 16:53	RLC	TAL RCH

Client Sample ID: B35MK1

Lab Sample ID: 300-3349-12 MS

Date Collected: 06/24/16 08:37

Matrix: Water

Date Received: 06/24/16 15:00

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		4693	06/24/16 19:51	RLC	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4694	06/24/16 19:51	RLC	TAL RCH

Laboratory References:

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

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

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



July 18, 2016
Sample Summary

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

TestAmerica Job ID: 300-3349-1
SDG: WC1198

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3349-1	B35MK6	Water	06/24/16 08:37	06/24/16 15:00
300-3349-2	B35MK2	Water	06/24/16 08:37	06/24/16 15:00
300-3349-3	B35MK7	Water	06/24/16 08:37	06/24/16 15:00
300-3349-4	B35MK3	Water	06/24/16 08:37	06/24/16 15:00
300-3349-5	B35ML2	Water	06/24/16 09:09	06/24/16 15:00
300-3349-6	B35ML4	Water	06/24/16 09:09	06/24/16 15:00
300-3349-7	B35ML8	Water	06/24/16 09:31	06/24/16 15:00
300-3349-8	B35MM0	Water	06/24/16 09:31	06/24/16 15:00
300-3349-9	B35ML7	Water	06/24/16 09:31	06/24/16 15:00
300-3349-10	B35VL5	Water	06/24/16 09:09	06/24/16 15:00
300-3349-11	B35MK0	Water	06/24/16 08:37	06/24/16 15:00
300-3349-12	B35MK1	Water	06/24/16 08:37	06/24/16 15:00

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3349-1

SDG Number: WC1198

Login Number: 3349

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	

