

8/18/2016

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: 300-3559-1
TestAmerica Sample Delivery Group: WC1296
Client Project/Site: S16-007

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

Attn: CPP Sample Management



Authorized for release by:
8/18/2016 8:32:30 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: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Qualifiers

HPLC/IC

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

General Chemistry

Qualifier	Qualifier Description
N	MS, MSD: Spike recovery is outside acceptance limits.
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: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Job ID: 300-3559-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3559-1

Comments

No additional comments.

Receipt

The samples were received on 7/25/2016 9:27 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6° C.

HPLC/IC

Method 300.0: The following sample required filtration to reduce matrix interferences: B35TF1 (300-3559-10).

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

General Chemistry

Method 7196A: The matrix spike (MS) recoveries for analytical batch 300-5023 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following samples were received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: B35V42 (300-3559-3), B35V44 (300-3559-4), B35V47 (300-3559-5) and B35V49 (300-3559-6). 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	SIR16-569
	REV NUM	0
	DATE INITIATED	8/17/2016

SAMPLE EVENT INFORMATION

SAF NUM(S) S16-007

OPERABLE UNIT(S)

PROJECT(S) SURV16

SAMPLE EVENT TITLE(S) SURV16

LABORATORY TestAmerica Incorporated, Richland

SAMPLING INFORMATION

NUMBER OF SAMPLES 4

SAMPLE NUMBERS B35V42, B35V44, B35V47, B35V49

SAMPLE MATRIX WATER

COLLECTION DATE 7/24/2016 - 7/24/2016

SDG NUM WC1296

ISSUE BACKGROUND

CLASS Field Sampling Issue

TYPE Analysis Hold Time Exceeded

DESCRIPTION The samples listed above were received with less than half the remaining time on the hold time for Cr VI analysis. As such the laboratory had insufficient time remaining to perform the analysis within analytical hold time.

DISPOSITION

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

JUSTIFICATION Final Disposition: Accept second proposal - Report the original analysis and narrate the reanalysis.

SUBMITTED BY: Steven Campbell DATE: 8/17/2016
ACCEPTED BY: Sarah Nagel DATE: 08/17/2016

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-007-230
Page 1 of 1

Collector	J.R. Aquilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-007	Sampling Origin	Hanford Site 7-24-16	Purchase Order/Charge Code	300071
Project Title	SURV, JULY 2016	Logbook No.	HNF-N-506-87/9	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	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 438.1			Hold Time		
			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
B351C0	N	JUL 24 2016	1410	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B351C2	Y	JUL 24 2016	1410	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3559
WGL296



300-3559 COC

Relinquished By	J.R. Aquilar/CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	SSU-1			JUL 24 2016 1520	SSU #1			JUL 24 2016 1520	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Chris Fulton CHPRC			JUL 25 2016 0930	Received By Chris Fulton CHPRC			JUL 25 2016 0930	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By					Received By L Anderson, TARI			JUL 25 2016 0930	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
PRINTED ON	5/26/2016		

FSR ID = FSR32809

A-6004-842 (REV 2)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-007-298

Page 1 of 1

Collector	J.R. Aguilera/CHPRC	Contact/Requestor	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV. JULY 2016	Logbook No.	HNF-N-506 <u>8719</u>	Ice Chest No.	N/A
Shipped To (Lab)	Test/America 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		Total Activity Exemption:	
*** 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		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35V42	N	<u>JUL 24 2016</u>	1113	1x60-ml aG	7196_CRG6: COMMON	24 Hours	Cool <=6C
B35V44	Y	<u>JUL 24 2016</u>	1113	1x60-ml aG	7196_CRG6: COMMON	24 Hours	Cool <=6C

#3559
W/C1296

Relinquished By	J.R. Aguilera/CHPRC	Print	Sign	Date/Time	Received By	Troy Bacon/CHPRC	Print	Sign	Date/Time	Matrix *
Relinquished By	Troy Bacon/CHPRC	Print	Sign	Date/Time	Received By	SSV #1	Print	Sign	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Chris Fulton/CHPRC	Print	Sign	Date/Time	Received By	L Anderson, TAPL	Print	Sign	Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-007-299
Page 1 of 1

Collector	J.R. Aquilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURY, JULY 2016	Logbook No.	HNF-N-506 87 / 9	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	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

Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35V47	N	JUL 24 2016	1211	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35V49	Y	JUL 24 2016	1211	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3559
WGL296

Relinquished By	J.R. Aquilar/CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	Troy Bacon CHPRC	Print	Sign	JUL 24 2016 1230	Received By	Troy L. Bacon CHPRC	Print	JUL 24 2016 1230	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	SSU #1	Print	Sign	JUL 25 2016 0830	Received By	Chris Fulton CHPRC	Print	JUL 25 2016 0830	DS = Drum Solids DL = Drum Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	Chris Fulton CHPRC	Print	Sign	JUL 25 2016 0927	Received By	L. Anderson, TARI CHPRC	Print	JUL 25 2016 0927	
FINAL SAMPLE DISPOSITION									
Disposal Method (e.g., Return to customer, per lab procedure, used in process)									

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-007-300
Page 1 of 1

Collector	S.R. Aguilar CHPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	S16-007		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071	
Project Title	SURY, JULY 2016		Logbook No.	HNF-N-506 87/ 9		Ice Chest No.	N/A	
Shipped To (Lab)	TestAmerica Incorporated, Richland		Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A	
Protocol	SURY		Priority:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS			Hold Time		
*** Contents 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
B35V/54	Y		JUL 24 2016	1309	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35V/52	N		JUL 24 2016	1309	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3559
WTC10916

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
J.R. Aguilar/CHPRC			JUL 24 2016 13	SSU #1			JUL 24 2016 17	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			Date/Time	Received By			Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation = Other
SSU-1			JUL 25 2016 0830	Chris Fulton CHPRC			JUL 25 2016 0927	
Relinquished By			Date/Time	Received By			Date/Time	
Chris Fulton CHPRC			JUL 25 2016 0927	L Anderson, TARI			JUL 25 2016 0927	

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-007-229
Page 1 of 1

Collector	J.R. Aguilera/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-007	Sampling Origin	Hanford Site 2/9	Purchase Order/Charge Code	300071
Project Title	SURY, JULY 2016	Logbook No.	HNF-N-506 84-7-24-14	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	SURY	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
			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
B351B9	N	JUL 24 2016	1410	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

#3559
WTC1296

Relinquished By	J.R. Aguilera/CHPRC	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Relinquished By	SSU #1			JUL 24 2016 1510	Chris Fulton/CHPRC			JUL 24 2016 1510	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Chris Fulton/CHPRC			JUL 25 2016 0830	Received By			JUL 25 2016 0830	DS = Drum Solids DL = Drum Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other
Relinquished By				JUL 25 2016 0922	Received By			JUL 25 2016 0922	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
PRINTED ON	5/26/2016		

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-007-237
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JULY 2016	Logbook No.	HNF-N-506 S7 / 9	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	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			Hold Time N/A Special Handling: N/A		
Sample No.	B35TF1	Filter	N	Date	JUL 24 2016 08:15
		* No./Type Container	1x125-ml P	Sample Analysis	300.0_ANIONS_IC: COMMON
		Holding Time	48 Hours	Preservative	Cool <=6C

3559
WGC1296

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	JUL 24 2016 09:30	Received By	Troy Bacon CHPRC	Print	Sign	Date/Time	JUL 24 2016 09:30	Matrix *	S = Soil DL = Drum Solids SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Troy Bacon CHPRC	Print	Sign	Date/Time	JUL 24 2016 09:38	Received By	SSV #1	Print	Sign	Date/Time	JUL 24 2016 09:38	Matrix *	DS = Dram Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	SSV #1	Print	Sign	Date/Time	JUL 25 2016 08:30	Received By	Chris Fulton CHPRC	Print	Sign	Date/Time	JUL 25 2016 08:30	Matrix *	
Relinquished By	Chris Fulton CHPRC	Print	Sign	Date/Time	JUL 25 2016 09:27	Received By	L Anderson, TARI	Print	Sign	Date/Time	JUL 25 2016 09:27	Matrix *	
FINAL SAMPLE DISPOSITION													
Disposal Method (e.g., Return to customer, per lab procedure, used in process)													

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: B35TC0

Lab Sample ID: 300-3559-1

No Detections.

Client Sample ID: B35TC2

Lab Sample ID: 300-3559-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.011	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V42

Lab Sample ID: 300-3559-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.016	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V44

Lab Sample ID: 300-3559-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.017	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V47

Lab Sample ID: 300-3559-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.011	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V49

Lab Sample ID: 300-3559-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.011	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V54

Lab Sample ID: 300-3559-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35V52

Lab Sample ID: 300-3559-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35TB9

Lab Sample ID: 300-3559-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	4.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.14	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	55	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35TF1

Lab Sample ID: 300-3559-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.3	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	1.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.34	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.053	B D	0.076	0.038	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: B35TF1 (Continued)

Lab Sample ID: 300-3559-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	34	D	0.50	0.25	mg/L	2		300.0	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: B35TC0

Date Collected: 07/24/16 14:10
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U N	0.0040	0.0015	mg/L			07/25/16 12:11	1

Client Sample ID: B35TC2

Date Collected: 07/24/16 14:10
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.011	N	0.0040	0.0015	mg/L			07/25/16 12:12	1

Client Sample ID: B35V42

Date Collected: 07/24/16 11:13
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.016	N	0.0040	0.0015	mg/L			07/25/16 12:12	1

Client Sample ID: B35V44

Date Collected: 07/24/16 11:13
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.017	N	0.0040	0.0015	mg/L			07/25/16 12:13	1

Client Sample ID: B35V47

Date Collected: 07/24/16 12:11
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.011	N	0.0040	0.0015	mg/L			07/25/16 12:13	1

Client Sample ID: B35V49

Date Collected: 07/24/16 12:11
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.011	N	0.0040	0.0015	mg/L			07/25/16 12:13	1

Client Sample ID: B35V54

Date Collected: 07/24/16 13:09
Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012	N	0.0040	0.0015	mg/L			07/25/16 12:17	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: B35V52

Lab Sample ID: 300-3559-8

Date Collected: 07/24/16 13:09

Matrix: Water

Date Received: 07/25/16 09:27

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012	N	0.0040	0.0015	mg/L			07/25/16 12:17	1

Client Sample ID: B35TB9

Lab Sample ID: 300-3559-9

Date Collected: 07/24/16 14:10

Matrix: Water

Date Received: 07/25/16 09:27

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4	D	0.40	0.20	mg/L			07/25/16 16:17	2
Nitrate as N	4.0	D	0.056	0.028	mg/L			07/25/16 16:17	2
Fluoride	0.14	D	0.10	0.050	mg/L			07/25/16 16:17	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/25/16 16:17	2
Sulfate	55	D	0.50	0.25	mg/L			07/25/16 16:17	2

Client Sample ID: B35TF1

Lab Sample ID: 300-3559-10

Date Collected: 07/24/16 08:15

Matrix: Water

Date Received: 07/25/16 09:27

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3	D	0.40	0.20	mg/L			07/25/16 17:03	2
Nitrate as N	1.6	D	0.056	0.028	mg/L			07/25/16 17:03	2
Fluoride	0.34	D	0.10	0.050	mg/L			07/25/16 17:03	2
Nitrite as N	0.053	B D	0.076	0.038	mg/L			07/25/16 17:03	2
Sulfate	34	D	0.50	0.25	mg/L			07/25/16 17:03	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-5020/5
Matrix: Water
Analysis Batch: 5020

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			07/25/16 15:47	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/25/16 15:47	1

Lab Sample ID: LCS 300-5020/6
Matrix: Water
Analysis Batch: 5020

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.30		mg/L		102	80 - 120
Nitrite as N	3.04	3.12		mg/L		102	80 - 120

Lab Sample ID: 300-3559-9 MS
Matrix: Water
Analysis Batch: 5020

Client Sample ID: B35TB9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.0	D	0.452	4.45	D	mg/L		98	75 - 125
Nitrite as N	0.038	U D	0.609	0.533	D	mg/L		88	75 - 125

Lab Sample ID: 300-3559-9 DU
Matrix: Water
Analysis Batch: 5020

Client Sample ID: B35TB9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	4.0	D	3.97	D	mg/L		0.9	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-5021/5
Matrix: Water
Analysis Batch: 5021

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			07/25/16 15:47	1
Fluoride	0.025	U	0.050	0.025	mg/L			07/25/16 15:47	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/25/16 15:47	1

Lab Sample ID: LCS 300-5021/6
Matrix: Water
Analysis Batch: 5021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.0		mg/L		100	80 - 120
Fluoride	4.00	4.03		mg/L		101	80 - 120
Sulfate	20.0	20.0		mg/L		100	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3559-9 MS
Matrix: Water
Analysis Batch: 5021

Client Sample ID: B35TB9
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Chloride	5.4	D	3.20	8.62	D	mg/L		99	75 - 125
Fluoride	0.14	D	0.800	0.861	D	mg/L		90	75 - 125
Sulfate	55	D	4.00	58.9	D	mg/L		90	75 - 125

Lab Sample ID: 300-3559-9 DU
Matrix: Water
Analysis Batch: 5021

Client Sample ID: B35TB9
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chloride	5.4	D	5.38	D	mg/L		1	20
Fluoride	0.14	D	0.142	D	mg/L		1	20
Sulfate	55	D	54.8	D	mg/L		0.9	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-5023/3
Matrix: Water
Analysis Batch: 5023

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			07/25/16 12:08	1

Lab Sample ID: LCS 300-5023/4
Matrix: Water
Analysis Batch: 5023

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cr (VI)	0.250	0.255		mg/L		102	80 - 120

Lab Sample ID: 300-3559-1 MS
Matrix: Water
Analysis Batch: 5023

Client Sample ID: B35TC0
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Cr (VI)	0.0015	U N	0.0500	0.0372	N	mg/L		74	75 - 125

Lab Sample ID: 300-3559-1 DU
Matrix: Water
Analysis Batch: 5023

Client Sample ID: B35TC0
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Cr (VI)	0.0015	U N	0.0015	U	mg/L		NC	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

HPLC/IC

Analysis Batch: 5020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3559-9	B35TB9	Total/NA	Water	300.0	
300-3559-10	B35TF1	Total/NA	Water	300.0	
MB 300-5020/5	Method Blank	Total/NA	Water	300.0	
LCS 300-5020/6	Lab Control Sample	Total/NA	Water	300.0	
300-3559-9 MS	B35TB9	Total/NA	Water	300.0	
300-3559-9 DU	B35TB9	Total/NA	Water	300.0	

Analysis Batch: 5021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3559-9	B35TB9	Total/NA	Water	300.0	
300-3559-10	B35TF1	Total/NA	Water	300.0	
MB 300-5021/5	Method Blank	Total/NA	Water	300.0	
LCS 300-5021/6	Lab Control Sample	Total/NA	Water	300.0	
300-3559-9 MS	B35TB9	Total/NA	Water	300.0	
300-3559-9 DU	B35TB9	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 5023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3559-1	B35TC0	Total/NA	Water	7196A	
300-3559-2	B35TC2	Total/NA	Water	7196A	
300-3559-3	B35V42	Total/NA	Water	7196A	
300-3559-4	B35V44	Total/NA	Water	7196A	
300-3559-5	B35V47	Total/NA	Water	7196A	
300-3559-6	B35V49	Total/NA	Water	7196A	
300-3559-7	B35V54	Total/NA	Water	7196A	
300-3559-8	B35V52	Total/NA	Water	7196A	
MB 300-5023/3	Method Blank	Total/NA	Water	7196A	
LCS 300-5023/4	Lab Control Sample	Total/NA	Water	7196A	
300-3559-1 MS	B35TC0	Total/NA	Water	7196A	
300-3559-1 DU	B35TC0	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
 SDG: WC1296

Client Sample ID: B35TC0
 Date Collected: 07/24/16 14:10
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-1
 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			5023	07/25/16 12:11	RLC	TAL RCH

Client Sample ID: B35TC2
 Date Collected: 07/24/16 14:10
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-2
 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			5023	07/25/16 12:12	RLC	TAL RCH

Client Sample ID: B35V42
 Date Collected: 07/24/16 11:13
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-3
 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			5023	07/25/16 12:12	RLC	TAL RCH

Client Sample ID: B35V44
 Date Collected: 07/24/16 11:13
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-4
 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			5023	07/25/16 12:13	RLC	TAL RCH

Client Sample ID: B35V47
 Date Collected: 07/24/16 12:11
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-5
 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			5023	07/25/16 12:13	RLC	TAL RCH

Client Sample ID: B35V49
 Date Collected: 07/24/16 12:11
 Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-6
 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			5023	07/25/16 12:13	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: B35V54

Date Collected: 07/24/16 13:09

Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-7

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			5023	07/25/16 12:17	RLC	TAL RCH

Client Sample ID: B35V52

Date Collected: 07/24/16 13:09

Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-8

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			5023	07/25/16 12:17	RLC	TAL RCH

Client Sample ID: B35TB9

Date Collected: 07/24/16 14:10

Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-9

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			5020	07/25/16 16:17	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5021	07/25/16 16:17	RLC	TAL RCH

Client Sample ID: B35TF1

Date Collected: 07/24/16 08:15

Date Received: 07/25/16 09:27

Lab Sample ID: 300-3559-10

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			5020	07/25/16 17:03	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5021	07/25/16 17:03	RLC	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-5020/5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			5020	07/25/16 15:47	RLC	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-5021/5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			5021	07/25/16 15:47	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Client Sample ID: Method Blank

Lab Sample ID: MB 300-5023/3

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			5023	07/25/16 12:08	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5020/6

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			5020	07/25/16 16:02	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5021/6

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			5021	07/25/16 16:02	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5023/4

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			5023	07/25/16 12:08	RLC	TAL RCH

Client Sample ID: B35TC0

Lab Sample ID: 300-3559-1 MS

Date Collected: 07/24/16 14:10

Matrix: Water

Date Received: 07/25/16 09:27

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			5023	07/25/16 12:09	RLC	TAL RCH

Client Sample ID: B35TB9

Lab Sample ID: 300-3559-9 MS

Date Collected: 07/24/16 14:10

Matrix: Water

Date Received: 07/25/16 09:27

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			5020	07/25/16 16:32	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5021	07/25/16 16:32	RLC	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: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

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: S16-007

TestAmerica Job ID: 300-3559-1
SDG: WC1296

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3559-1	B35TC0	Water	07/24/16 14:10	07/25/16 09:27
300-3559-2	B35TC2	Water	07/24/16 14:10	07/25/16 09:27
300-3559-3	B35V42	Water	07/24/16 11:13	07/25/16 09:27
300-3559-4	B35V44	Water	07/24/16 11:13	07/25/16 09:27
300-3559-5	B35V47	Water	07/24/16 12:11	07/25/16 09:27
300-3559-6	B35V49	Water	07/24/16 12:11	07/25/16 09:27
300-3559-7	B35V54	Water	07/24/16 13:09	07/25/16 09:27
300-3559-8	B35V52	Water	07/24/16 13:09	07/25/16 09:27
300-3559-9	B35TB9	Water	07/24/16 14:10	07/25/16 09:27
300-3559-10	B35TF1	Water	07/24/16 08:15	07/25/16 09:27



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3559-1

SDG Number: WC1296

Login Number: 3559

List Number: 1

Creator: Anderson, Lori F

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.	N/A	
Residual Chlorine Checked.	N/A	