

7/12/2016

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: 300-3311-1
TestAmerica Sample Delivery Group: WC1184
Client Project/Site: S16-006

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

Attn: CPP Sample Management



Authorized for release by:
7/12/2016 12:58:51 PM
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Designee for
Whitney Ritari, Project Manager I
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I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.

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



LINKS

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TotalAccess

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

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: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Job ID: 300-3311-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative 300-3311-1

Comments

No additional comments.

Receipt

The samples were received on 6/20/2016 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.5° C.

HPLC/IC

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

General Chemistry

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



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-006-379

Page 1 of 1

Collector	Dan Weehle CHPRG	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-006	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JUNE 2016	Logbook No.	HNF-N-506 <u>86 / 34</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		
Sample No.	Filter	*	Date	Time	No./Type Container
B35B31	Y	W	6-20-16	1032	1x60-ml aG
B35B29	N	W	6-20-16	1032	1x60-ml aG
Sample Analysis			Holding Time		
7196_CR6: COMMON			24 Hours		
7196_CR6: COMMON			24 Hours		
Preservative			Cool <=6C		
Cool <=6C			Cool <=6C		

7/12/2016

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300-3311 COC



Relinquished By	Dan Weehle CHPRG	Print	Signature	Date/Time	Received By	Print	Signature	Date/Time	Matrix *
Relinquished By	Testa Test CHPRG	Signature	Signature	JUN 20 2016 1445	Testa Test CHPRG	Signature	Signature	JUN 20 2016 1445	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Signature	Signature	Signature	JUN 20 2016 1440	J. Bock, TARL	Signature	Signature	JUN 20 2016 1440	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								

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-006-384

Page 1 of 1

Collector	Dan Woehle CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-006	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, JUNE 2016	Logbook No.	HNF-N-506 <u>86/34</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		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					

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B35B45	N	W	6.20.16	1138	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35B46	Y	W	6.20.16	1138	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By	Dan Woehle CHPRC	Date/Time	JUN 20 2016 1135	Received By	J. Bock, TAPL	Date/Time	JUN 20 2016 1440	Matrix *
Relinquished By	Lesly West KCHPRC	Date/Time	JUN 20 2016 1440	Received By	J. Bock, TAPL	Date/Time	JUN 20 2016 1440	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drums Solids DL = Drums Liquids T = Tissue WT = 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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S16-006-378
Page 1 of 1

Collector Dan Meehan CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-006	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, JUNE 2016	Logbook No. HNF-N-506 <u>16/34</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
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
B35B25	N	W	6-30-16	1007	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35B26	Y	W	6-30-16	1007	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By Dan Woshtle CHPRC	Print Sign	Date/Time JUN 20 2016 11:45	Received By Ledy Ross CHPRC	Print Sign	Date/Time JUN 20 2016 11:45
Relinquished By Ledy Ross CHPRC	Print Sign	Date/Time JUN 20 2016 14:40	Received By J. Bock, TARL	Print Sign	Date/Time JUN 20 2016 14:40
Relinquished By	Date/Time	Received 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
WT	= Wipe
L	= Liquid
V	= Vegetation
X	= Other



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-006-375
Page 1 of 1

Collector Dan Woesche CHPRG	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-006	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, JUNE 2016	Logbook No. HNF-N-506 <u>86 / 34</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
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
B35B17	N	W	6-30-16	1109	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35B18	Y	W	6-30-16	1109	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

Handwritten: # 3311
JUN 11 11:84

Relinquished By Dan Woesche CHPRG	Print <i>[Signature]</i>	Sign	Date/Time JUN 20 2016 1145	Received By <i>[Signature]</i>	Print J. Beck, TARI	Sign	Date/Time JUN 20 2016 1145
Relinquished By Ledy West CHPRG	Print <i>[Signature]</i>	Sign	Date/Time JUN 20 2016 1440	Received By <i>[Signature]</i>	Print	Sign	Date/Time JUN 20 2016 1440

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

Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
FINAL SAMPLE DISPOSITION	Disposed 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. #
S16-006-383
Page 1 of 1

Collector	Dan Hiseite CHPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	S16-006		Sampling Origin	Hamford Site		Purchase Order/Charge Code	300071	
Project Title	SURV, JUNE 2016		Logbook No.	HNF-N-506 <u>86/34</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			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					

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35B41	N	W	6.20.16	0927	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B35B43	Y	W	6.20.16	0927	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By	Print Dan Woeble CHPRC	Sign	Date/Time	Received By	Print Leedy West CHPRC	Sign	Date/Time	Matrix *
Relinquished By			JUN 20 2016 1145	Received By			JUN 20 2016 1145	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			JUN 20 2016 1440	Received By	1. Bock, TARI		JUN 20 2016 1440	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. #
S16-006-382
Page 1 of 1

Collector Dan Woeltle CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. S16-006	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071
Project Title SURV, JUNE 2016	Logbook No. HNF-N-506 <u>Pe/34</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. B35B40	Filter N	* W
Date 6/20/16	Time 0927	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		Matrix *

*B35B40
W/C 1184*

Relinquished By Dan Woeltle CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time JUN 20 2016 1145	Received By Dan Woeltle CHPRC	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time JUN 20 2016 1145	Matrix *
Relinquished By Leah West CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	Date/Time JUN 20 2016 1440	Received By Leah West CHPRC	<i>[Signature]</i>	<i>[Signature]</i>	Date/Time JUN 20 2016 1440	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 X = Other
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: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Client Sample ID: B35B31

Lab Sample ID: 300-3311-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0062		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B29

Lab Sample ID: 300-3311-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0047		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B45

Lab Sample ID: 300-3311-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0024	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B46

Lab Sample ID: 300-3311-4

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: B35B25

Lab Sample ID: 300-3311-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.013		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B26

Lab Sample ID: 300-3311-6

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

Client Sample ID: B35B17

Lab Sample ID: 300-3311-7

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: B35B18

Lab Sample ID: 300-3311-8

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: B35B41

Lab Sample ID: 300-3311-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0052		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B43

Lab Sample ID: 300-3311-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0055		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35B40

Lab Sample ID: 300-3311-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)									

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
 SDG: WC1184

Client Sample ID: B35B40 (Continued)

Lab Sample ID: 300-3311-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.6	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	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

This Detection Summary does not include radiochemical test results.



Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Client Sample ID: B35B31

Date Collected: 06/20/16 10:32
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0062		0.0040	0.0015	mg/L			06/21/16 06:42	1

Client Sample ID: B35B29

Date Collected: 06/20/16 10:32
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0047		0.0040	0.0015	mg/L			06/21/16 06:43	1

Client Sample ID: B35B45

Date Collected: 06/20/16 11:38
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0024	B	0.0040	0.0015	mg/L			06/21/16 06:43	1

Client Sample ID: B35B46

Date Collected: 06/20/16 11:38
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-4

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			06/21/16 06:43	1

Client Sample ID: B35B25

Date Collected: 06/20/16 10:07
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.013		0.0040	0.0015	mg/L			06/21/16 06:44	1

Client Sample ID: B35B26

Date Collected: 06/20/16 10:07
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			06/21/16 06:44	1

Client Sample ID: B35B17

Date Collected: 06/20/16 11:09
Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-7

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			06/21/16 06:47	1

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Client Sample ID: B35B18

Lab Sample ID: 300-3311-8

Date Collected: 06/20/16 11:09

Matrix: Water

Date Received: 06/20/16 14:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L			06/21/16 06:48	1

Client Sample ID: B35B41

Lab Sample ID: 300-3311-9

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0052		0.0040	0.0015	mg/L			06/21/16 06:48	1

Client Sample ID: B35B43

Lab Sample ID: 300-3311-10

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0055		0.0040	0.0015	mg/L			06/21/16 06:48	1

Client Sample ID: B35B40

Lab Sample ID: 300-3311-11

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	0.40	0.20	mg/L			06/21/16 15:43	2
Nitrate as N	5.6	D	0.056	0.028	mg/L			06/21/16 15:43	2
Fluoride	0.14	D	0.10	0.050	mg/L			06/21/16 15:43	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/21/16 15:43	2
Orthophosphate as P	0.41	U D	0.82	0.41	mg/L			06/21/16 16:28	10
Sulfate	190	D	2.5	1.3	mg/L			06/21/16 16:28	10
Bromide	0.22	B D	0.25	0.13	mg/L			06/21/16 15:43	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4636/5
Matrix: Water
Analysis Batch: 4636

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			06/21/16 15:13	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/21/16 15:13	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			06/21/16 15:13	1

Lab Sample ID: LCS 300-4636/6
Matrix: Water
Analysis Batch: 4636

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	2.34		mg/L		104	80 - 120
Nitrite as N	3.04	3.16		mg/L		104	80 - 120
Orthophosphate as P	6.53	6.76		mg/L		104	80 - 120

Lab Sample ID: 300-3311-11 MS
Matrix: Water
Analysis Batch: 4636

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.6	D	0.452	5.97	D	mg/L		89	75 - 125
Nitrite as N	0.038	U D	0.609	0.520	D	mg/L		85	75 - 125

Lab Sample ID: 300-3311-11 MS
Matrix: Water
Analysis Batch: 4636

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate as P	0.41	U D	6.53	5.45	D	mg/L		83	75 - 125

Lab Sample ID: 300-3311-11 DU
Matrix: Water
Analysis Batch: 4636

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.6	D	5.57	D	mg/L		0.1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: 300-3311-11 DU
Matrix: Water
Analysis Batch: 4636

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Orthophosphate as P	0.41	U D	0.41	U D	mg/L		NC	20

Lab Sample ID: MB 300-4637/5
Matrix: Water
Analysis Batch: 4637

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			06/21/16 15:13	1

TestAmerica Richland

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 300-4637/5
Matrix: Water
Analysis Batch: 4637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.025	U	0.050	0.025	mg/L			06/21/16 15:13	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/21/16 15:13	1
Bromide	0.063	U	0.13	0.063	mg/L			06/21/16 15:13	1

Lab Sample ID: LCS 300-4637/6
Matrix: Water
Analysis Batch: 4637

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	16.3		mg/L		102	80 - 120
Fluoride	4.00	4.11		mg/L		103	80 - 120
Sulfate	20.0	20.5		mg/L		103	80 - 120
Bromide	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: 300-3311-11 MS
Matrix: Water
Analysis Batch: 4637

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16	D	3.20	18.7	D	mg/L		95	75 - 125
Fluoride	0.14	D	0.800	0.836	D	mg/L		87	75 - 125
Bromide	0.22	B D	2.00	1.88	D	mg/L		83	75 - 125

Lab Sample ID: 300-3311-11 MS
Matrix: Water
Analysis Batch: 4637

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	190	D	20.0	208	D	mg/L		80	75 - 125

Lab Sample ID: 300-3311-11 DU
Matrix: Water
Analysis Batch: 4637

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	16	D	15.7	D	mg/L		0.1	20
Fluoride	0.14	D	0.141	D	mg/L		0.2	20
Bromide	0.22	B D	0.219	B D	mg/L		0.1	20

Lab Sample ID: 300-3311-11 DU
Matrix: Water
Analysis Batch: 4637

Client Sample ID: B35B40
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	190	D	192	D	mg/L		0.3	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
 SDG: WC1184

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4632/3
 Matrix: Water
 Analysis Batch: 4632

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			06/21/16 06:39	1

Lab Sample ID: LCS 300-4632/4
 Matrix: Water
 Analysis Batch: 4632

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	0.254		mg/L		102	80 - 120

Lab Sample ID: 300-3311-1 MS
 Matrix: Water
 Analysis Batch: 4632

Client Sample ID: B35B31
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0062		0.0499	0.0574		mg/L		103	75 - 125

Lab Sample ID: 300-3311-1 DU
 Matrix: Water
 Analysis Batch: 4632

Client Sample ID: B35B31
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0062		0.00630		mg/L		2	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

HPLC/IC

Analysis Batch: 4636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3311-11	B35B40	Total/NA	Water	300.0	
300-3311-11	B35B40	Total/NA	Water	300.0	
300-3311-11 DU	B35B40	Total/NA	Water	300.0	
300-3311-11 DU	B35B40	Total/NA	Water	300.0	
300-3311-11 MS	B35B40	Total/NA	Water	300.0	
300-3311-11 MS	B35B40	Total/NA	Water	300.0	
LCS 300-4636/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4636/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3311-11	B35B40	Total/NA	Water	300.0	
300-3311-11	B35B40	Total/NA	Water	300.0	
300-3311-11 DU	B35B40	Total/NA	Water	300.0	
300-3311-11 DU	B35B40	Total/NA	Water	300.0	
300-3311-11 MS	B35B40	Total/NA	Water	300.0	
300-3311-11 MS	B35B40	Total/NA	Water	300.0	
LCS 300-4637/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4637/5	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3311-1	B35B31	Total/NA	Water	7196A	
300-3311-1 DU	B35B31	Total/NA	Water	7196A	
300-3311-1 MS	B35B31	Total/NA	Water	7196A	
300-3311-2	B35B29	Total/NA	Water	7196A	
300-3311-3	B35B45	Total/NA	Water	7196A	
300-3311-4	B35B46	Total/NA	Water	7196A	
300-3311-5	B35B25	Total/NA	Water	7196A	
300-3311-6	B35B26	Total/NA	Water	7196A	
300-3311-7	B35B17	Total/NA	Water	7196A	
300-3311-8	B35B18	Total/NA	Water	7196A	
300-3311-9	B35B41	Total/NA	Water	7196A	
300-3311-10	B35B43	Total/NA	Water	7196A	
LCS 300-4632/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4632/3	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
 SDG: WC1184

Client Sample ID: B35B31

Date Collected: 06/20/16 10:32

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-1

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			4632	06/21/16 06:42	RLC	TAL RCH

Client Sample ID: B35B29

Date Collected: 06/20/16 10:32

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-2

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			4632	06/21/16 06:43	RLC	TAL RCH

Client Sample ID: B35B45

Date Collected: 06/20/16 11:38

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-3

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			4632	06/21/16 06:43	RLC	TAL RCH

Client Sample ID: B35B46

Date Collected: 06/20/16 11:38

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-4

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			4632	06/21/16 06:43	RLC	TAL RCH

Client Sample ID: B35B25

Date Collected: 06/20/16 10:07

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-5

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			4632	06/21/16 06:44	RLC	TAL RCH

Client Sample ID: B35B26

Date Collected: 06/20/16 10:07

Date Received: 06/20/16 14:40

Lab Sample ID: 300-3311-6

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			4632	06/21/16 06:44	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Client Sample ID: B35B17

Lab Sample ID: 300-3311-7

Date Collected: 06/20/16 11:09

Matrix: Water

Date Received: 06/20/16 14:40

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			4632	06/21/16 06:47	RLC	TAL RCH

Client Sample ID: B35B18

Lab Sample ID: 300-3311-8

Date Collected: 06/20/16 11:09

Matrix: Water

Date Received: 06/20/16 14:40

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			4632	06/21/16 06:48	RLC	TAL RCH

Client Sample ID: B35B41

Lab Sample ID: 300-3311-9

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

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			4632	06/21/16 06:48	RLC	TAL RCH

Client Sample ID: B35B43

Lab Sample ID: 300-3311-10

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

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			4632	06/21/16 06:48	RLC	TAL RCH

Client Sample ID: B35B40

Lab Sample ID: 300-3311-11

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

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		4636	06/21/16 15:43	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4637	06/21/16 15:43	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4636	06/21/16 16:28	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4637	06/21/16 16:28	CPM	TAL RCH

Client Sample ID: B35B31

Lab Sample ID: 300-3311-1 DU

Date Collected: 06/20/16 10:32

Matrix: Water

Date Received: 06/20/16 14:40

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			4632	06/21/16 06:43	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Client Sample ID: B35B40

Lab Sample ID: 300-3311-11 DU

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

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		4636	06/21/16 16:13	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4637	06/21/16 16:13	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4636	06/21/16 16:58	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4637	06/21/16 16:58	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4632/4

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			4632	06/21/16 06:39	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4636/6

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		4636	06/21/16 15:28	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4637/6

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		4637	06/21/16 15:28	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4632/3

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			4632	06/21/16 06:39	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4636/5

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		4636	06/21/16 15:13	CPM	TAL RCH

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Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-006

TestAmerica Job ID: 300-3311-1
 SDG: WC1184

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4637/5

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		4637	06/21/16 15:13	CPM	TAL RCH

Client Sample ID: B35B31

Lab Sample ID: 300-3311-1 MS

Date Collected: 06/20/16 10:32

Matrix: Water

Date Received: 06/20/16 14:40

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	4632	06/21/16 06:40	RLC	TAL RCH

Client Sample ID: B35B40

Lab Sample ID: 300-3311-11 MS

Date Collected: 06/20/16 09:27

Matrix: Water

Date Received: 06/20/16 14:40

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		4636	06/21/16 15:58	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4637	06/21/16 15:58	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4636	06/21/16 16:43	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4637	06/21/16 16:43	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: S16-006

TestAmerica Job ID: 300-3311-1
 SDG: WC1184

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: S16-006

TestAmerica Job ID: 300-3311-1
SDG: WC1184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3311-1	B35B31	Water	06/20/16 10:32	06/20/16 14:40
300-3311-2	B35B29	Water	06/20/16 10:32	06/20/16 14:40
300-3311-3	B35B45	Water	06/20/16 11:38	06/20/16 14:40
300-3311-4	B35B46	Water	06/20/16 11:38	06/20/16 14:40
300-3311-5	B35B25	Water	06/20/16 10:07	06/20/16 14:40
300-3311-6	B35B26	Water	06/20/16 10:07	06/20/16 14:40
300-3311-7	B35B17	Water	06/20/16 11:09	06/20/16 14:40
300-3311-8	B35B18	Water	06/20/16 11:09	06/20/16 14:40
300-3311-9	B35B41	Water	06/20/16 09:27	06/20/16 14:40
300-3311-10	B35B43	Water	06/20/16 09:27	06/20/16 14:40
300-3311-11	B35B40	Water	06/20/16 09:27	06/20/16 14:40

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3311-1

SDG Number: WC1184

Login Number: 3311

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	