

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: 300-1505-1
TestAmerica Sample Delivery Group: WC0593
Client Project/Site: CH2M Hill Chemical

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

Attn: CPP Sample Management



Authorized for release by:
12/7/2015 12:04:08 PM
Steven Campbell, Quality Assurance 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 elss than five times the MDL.



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Qualifiers**HPLC/IC**

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.

General Chemistry

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

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)

Job ID: 300-1505-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1505-1**

Comments

No additional comments.

Receipt

The samples were received on 11/12/2015 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.2° C.

HPLC/IC

Method 300.0: The following sample required filtration to reduce matrix interferences and solids: B336W4 (300-1505-23).

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.



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-008-232

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 79	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			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
B337K6	N	W	11-12-15	1049	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337K7	Y	W	11-12-15	1049	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W00593
1505



300-1505 COC

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARL	Print	Sign	Date/Time	NOV 12 2015 1425			
Relinquished By				Date/Time		Received By				Date/Time				

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

C.O.C. #
X16-008-227
Page 1 of 1

Collector	J.R. Aguilera/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>78</u> / <u>79</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			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
B337J1	N	W	11-12-15	0956	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337J2	Y	W	11-12-15	0956	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCD593
#1505

M.A. White
CHPRC

Reinquished By	<i>[Signature]</i>	Print	Sign	Date/Time	Received By	<i>[Signature]</i>	Print	Sign	Date/Time	Matrix *
Reinquished By	J.R. Aguilera/CHPRC			NOV 12 2015 1305	Received By	M.A. White			NOV 12 2015 1305	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By	CHPRC			NOV 12 2015 1425	Received By	J. Friesz, TARI			NOV 12 2015 1425	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

December 07 2015

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

C.O.C. #

X16-008-231

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 79	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 PRIORITY	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		
			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
B337K4	Y	W	11-12-15	1041	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337K3	N	W	11-12-15	1041	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCO593
#1505

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Sign	[Signature]	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	[Signature]	Sign	[Signature]	Date/Time	NOV 12 2015 1305	Matrix *
Relinquished By	M.A. White	Sign	[Signature]	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARL	Print	[Signature]	Sign	[Signature]	Date/Time	NOV 12 2015 1425	

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

C.O.C. #

X16-008-230

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Collector	J.R. Aguilar/CH2M	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 79	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			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
B337K0	N	W	11-12-15	1032	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337K1	Y	W	11-12-15	1032	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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#1505

December 07 2015

Relinquished By	J.R. Aguilar/CH2M	Print	Sign	Date/Time	NOV 12 2015	1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015	1305	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	M.A. White/CH2M	Print	Sign	Date/Time	NOV 12 2015	1425	Received By	J. Friesz, TARL	Print	Sign	Date/Time	NOV 12 2015	1425	

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

C.O.C. #
X16-008-164

Page 1 of 1

Collector	J.R. Aguilar-CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 80	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			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
B336X2	Y	W	11-12-15	1110	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B336X1	N	W	11-12-15	1110	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCD0593
1505

December 07 2015

Relinquished By	J.R. Aguilar-CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARKL	Print	Sign	Date/Time	NOV 12 2015 1425
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

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

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-008-162

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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 80	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 PRIORITY	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		
			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
B336W5	N	W	11-12-15	1125	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B336W6	Y	W	11-12-15	1125	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W00593
#1505

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 12 2015	Date/Time	1305	Received By	M.A. Wynite	Print	Sign	NOV 12 2015	Date/Time	1305	Matrix *
Relinquished By	CHPRC	Print	Sign	NOV 12 2015	Date/Time	1425	Received By	J. Friesz, TARL	Print	Sign	NOV 12 2015	Date/Time	1425	S = Soil
Relinquished By	CHPRC	Print	Sign	NOV 12 2015	Date/Time	1425	Received By		Print	Sign	NOV 12 2015	Date/Time	1425	SE = Sediment
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		SO = Solid
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		SL = Sludge
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		W = Water
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		O = Oil
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		A = Air

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

C.O.C. #
X16-008-224
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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>78 / 79</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			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
B337F9	N	W	11-12-15	0901	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337H1	Y	W	11-12-15	0921	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W00593
1505

December 07 2015

Requisitioned By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305	Matrix *
Requisitioned By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARR	Print	Sign	Date/Time	NOV 12 2015 1425	S = Soil
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SE = Sediment
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SO = Solid
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SL = Sludge
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		W = Water
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		O = Oil
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		A = Air
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DS = Drum Solids
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DL = Drum Liquids
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		T = Tissue
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		WT = Wipe
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		L = Liquid
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		V = Vegetation
Requisitioned By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		X = Other

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

C.O.C. #
X16-008-229

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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78/ 79	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			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
B337J8	Y	W	11-12-15	1016	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B337J7	N	W	11-12-15	1016	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W 20593
1505

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARL	Print	Sign	Date/Time	NOV 12 2015 1425
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-008-228
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78/79	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			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
B337J4	N	W	11-12-15	1005	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B337J5	Y	W	11-12-15	1005	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C

WCD593
1505

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1435	Received By	J. P. HESS, TARI	Print	Sign	Date/Time	NOV 12 2015 1435
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

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

Relinquished By		Date/Time	Received By		Date/Time
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)			
PRINTED ON 10/5/2015		FSR ID = FSR7684		A-6004-842 (REV 2)	

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-008-163

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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 78 / 82	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			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
B336W9	Y	W	11-12-15	1117	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B336W8	N	W	11-12-15	1117	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WJ0593
#1505

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Hiesz, TARL	Print	Sign	Date/Time	NOV 12 2015 1425
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

Matrix *

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X16-008-160**
Page 1 of 1

Collector J.R. Aguilar/CHPRC	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. X16-008	Sampling Origin Hanford Site	Purchase Order/Charge Code 303064
Project Title AQUIFER TUBES, NOVEMBER 2015	Logbook No. HNF-N-506 78 / 79	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 PRIORITY	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		

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B336W1	N	W	11-12-15	0933	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B336W2	Y	W	11-12-15	0933	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#1505
W60593

December 07 2015

Reinquished By J.R. Aguilar/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time NOV 12 2015 1305	Received By CHPRC	Print <i>[Signature]</i>	Sign	Date/Time NOV 12 2015 1305	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
Reinquished By M.A. White/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time NOV 12 2015 1425	Received By J. Friesz, TARL	Print <i>[Signature]</i>	Sign	Date/Time NOV 12 2015 1425	

Reinquished By	Date/Time	Received By	Date/Time
Reinquished By	Date/Time	Received By	Date/Time

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-008-161

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-008	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303064
Project Title	AQUIFER TUBES, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>78/80</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			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
B36W4	N	W	11-12-15	1125	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

WJL0593
#1505

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 12 2015 1305	Received By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1305	Matrix * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	M.A. White	Print	Sign	Date/Time	NOV 12 2015 1425	Received By	J. Friesz, TARA	Print	Sign	Date/Time	NOV 12 2015 1425	
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		

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

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337K6

Lab Sample ID: 300-1505-1

No Detections.

Client Sample ID: B337K7

Lab Sample ID: 300-1505-2

No Detections.

Client Sample ID: B337J1

Lab Sample ID: 300-1505-3

No Detections.

Client Sample ID: B337J2

Lab Sample ID: 300-1505-4

No Detections.

Client Sample ID: B337K4

Lab Sample ID: 300-1505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0027	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B337K3

Lab Sample ID: 300-1505-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0019	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B337K0

Lab Sample ID: 300-1505-7

No Detections.

Client Sample ID: B337K1

Lab Sample ID: 300-1505-8

No Detections.

Client Sample ID: B336X2

Lab Sample ID: 300-1505-9

No Detections.

Client Sample ID: B336X1

Lab Sample ID: 300-1505-10

No Detections.

Client Sample ID: B336W5

Lab Sample ID: 300-1505-11

No Detections.

Client Sample ID: B336W6

Lab Sample ID: 300-1505-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0033	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B337F9

Lab Sample ID: 300-1505-13

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337H1

Lab Sample ID: 300-1505-14

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: B337J8

Lab Sample ID: 300-1505-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0018	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B337J7

Lab Sample ID: 300-1505-16

No Detections.

Client Sample ID: B337J4

Lab Sample ID: 300-1505-17

No Detections.

Client Sample ID: B337J5

Lab Sample ID: 300-1505-18

No Detections.

Client Sample ID: B336W9

Lab Sample ID: 300-1505-19

No Detections.

Client Sample ID: B336W8

Lab Sample ID: 300-1505-20

No Detections.

Client Sample ID: B336W1

Lab Sample ID: 300-1505-21

No Detections.

Client Sample ID: B336W2

Lab Sample ID: 300-1505-22

No Detections.

Client Sample ID: B336W4

Lab Sample ID: 300-1505-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.84	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.16	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	9.6	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337K6

Date Collected: 11/12/15 10:48

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-1

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			11/12/15 17:41	1

Client Sample ID: B337K7

Date Collected: 11/12/15 10:48

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-2

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			11/12/15 17:42	1

Client Sample ID: B337J1

Date Collected: 11/12/15 09:56

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-3

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			11/12/15 17:42	1

Client Sample ID: B337J2

Date Collected: 11/12/15 09:56

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-4

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			11/12/15 17:42	1

Client Sample ID: B337K4

Date Collected: 11/12/15 10:41

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0027	B	0.0040	0.0015	mg/L			11/12/15 17:43	1

Client Sample ID: B337K3

Date Collected: 11/12/15 10:41

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0019	B	0.0040	0.0015	mg/L			11/12/15 17:45	1

Client Sample ID: B337K0

Date Collected: 11/12/15 10:32

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-7

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			11/12/15 17:46	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
SDG: WC0593

Client Sample ID: B337K1

Date Collected: 11/12/15 10:32

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-8

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	-		11/12/15 17:46	1

Client Sample ID: B336X2

Date Collected: 11/12/15 11:10

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-9

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	-		11/12/15 17:47	1

Client Sample ID: B336X1

Date Collected: 11/12/15 11:10

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-10

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	-		11/12/15 17:47	1

Client Sample ID: B336W5

Date Collected: 11/12/15 11:25

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-11

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	-		11/12/15 17:47	1

Client Sample ID: B336W6

Date Collected: 11/12/15 11:25

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-12

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0033	B	0.0040	0.0015	mg/L	-		11/12/15 17:50	1

Client Sample ID: B337F9

Date Collected: 11/12/15 09:01

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-13

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	-		11/12/15 17:51	1

Client Sample ID: B337H1

Date Collected: 11/12/15 09:01

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-14

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	-		11/12/15 17:52	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337J8
Date Collected: 11/12/15 10:16
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-15
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0018	B	0.0040	0.0015	mg/L	-		11/12/15 17:55	1

Client Sample ID: B337J7
Date Collected: 11/12/15 10:16
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-16
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	-		11/12/15 17:56	1

Client Sample ID: B337J4
Date Collected: 11/12/15 10:05
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-17
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	-		11/12/15 17:56	1

Client Sample ID: B337J5
Date Collected: 11/12/15 10:05
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-18
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	-		11/12/15 17:56	1

Client Sample ID: B336W9
Date Collected: 11/12/15 11:17
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-19
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	-		11/12/15 17:56	1

Client Sample ID: B336W8
Date Collected: 11/12/15 11:17
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-20
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	-		11/12/15 17:57	1

Client Sample ID: B336W1
Date Collected: 11/12/15 09:33
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-21
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	-		11/12/15 17:57	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B336W2
Date Collected: 11/12/15 09:33
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-22
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			11/12/15 18:00	1

Client Sample ID: B336W4
Date Collected: 11/12/15 11:25
Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-23
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.84	D	0.40	0.20	mg/L			11/12/15 23:30	2
Nitrate as N	0.16	D	0.056	0.028	mg/L			11/12/15 23:30	2
Fluoride	0.14	D	0.10	0.050	mg/L			11/12/15 23:30	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/12/15 23:30	2
Sulfate	9.6	D	0.50	0.25	mg/L			11/12/15 23:30	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-1965/42
 Matrix: Water
 Analysis Batch: 1965

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			11/12/15 21:30	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/12/15 21:30	1

Lab Sample ID: LCS 300-1965/43
 Matrix: Water
 Analysis Batch: 1965

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	2.39		mg/L		106	80 - 120
Nitrite as N	3.04	3.26		mg/L		107	80 - 120

Lab Sample ID: 300-1506-A-2 MS
 Matrix: Water
 Analysis Batch: 1965

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.3	D	0.452	5.83	D	mg/L		108	75 - 125
Nitrite as N	0.038	U	0.609	0.565	D	mg/L		93	75 - 125

Lab Sample ID: 300-1506-A-2 DU
 Matrix: Water
 Analysis Batch: 1965

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.3	D	5.34	D	mg/L		0.09	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20

Lab Sample ID: MB 300-1966/42
 Matrix: Water
 Analysis Batch: 1966

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			11/12/15 21:30	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/12/15 21:30	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/12/15 21:30	1

Lab Sample ID: LCS 300-1966/43
 Matrix: Water
 Analysis Batch: 1966

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	16.8		mg/L		105	80 - 120
Fluoride	4.00	4.24		mg/L		106	80 - 120
Sulfate	20.0	21.1		mg/L		106	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1506-A-2 MS

Matrix: Water

Analysis Batch: 1966

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20	D	3.20	22.9	D	mg/L		105	75 - 125
Fluoride	0.28	D	0.800	1.06	D	mg/L		97	75 - 125
Sulfate	56	D	4.00	60.0	D	mg/L		108	75 - 125

Lab Sample ID: 300-1506-A-2 DU

Matrix: Water

Analysis Batch: 1966

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20	D	19.5	D	mg/L		0.2	20
Fluoride	0.28	D	0.285	D	mg/L		0.1	20
Sulfate	56	D	55.6	D	mg/L		0.07	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-1981/3

Matrix: Water

Analysis Batch: 1981

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			11/12/15 17:32	1

Lab Sample ID: MB 300-1981/31

Matrix: Water

Analysis Batch: 1981

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			11/12/15 17:50	1

Lab Sample ID: LCS 300-1981/32

Matrix: Water

Analysis Batch: 1981

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	0.247		mg/L		99	80 - 120

Lab Sample ID: LCS 300-1981/4

Matrix: Water

Analysis Batch: 1981

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	0.248		mg/L		99	80 - 120

Lab Sample ID: 300-1505-13 MS

Matrix: Water

Analysis Batch: 1981

Client Sample ID: B337F9

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0015	U	0.0500	0.0500		mg/L		100	85 - 115

Client: CH2M Hill Plateau Remediation Company
Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
SDG: WC0593

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 300-1505-13 DU
Matrix: Water
Analysis Batch: 1981

Client Sample ID: B337F9
Prep Type: Total/NA

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

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

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

HPLC/IC

Analysis Batch: 1965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1505-23	B336W4	Total/NA	Water	300.0	
300-1506-A-2 DU	Duplicate	Total/NA	Water	300.0	
300-1506-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-1965/43	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1965/42	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 1966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1505-23	B336W4	Total/NA	Water	300.0	
300-1506-A-2 DU	Duplicate	Total/NA	Water	300.0	
300-1506-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-1966/43	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1966/42	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 1981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1505-1	B337K6	Total/NA	Water	7196A	
300-1505-2	B337K7	Total/NA	Water	7196A	
300-1505-3	B337J1	Total/NA	Water	7196A	
300-1505-4	B337J2	Total/NA	Water	7196A	
300-1505-5	B337K4	Total/NA	Water	7196A	
300-1505-6	B337K3	Total/NA	Water	7196A	
300-1505-7	B337K0	Total/NA	Water	7196A	
300-1505-8	B337K1	Total/NA	Water	7196A	
300-1505-9	B336X2	Total/NA	Water	7196A	
300-1505-10	B336X1	Total/NA	Water	7196A	
300-1505-11	B336W5	Total/NA	Water	7196A	
300-1505-12	B336W6	Total/NA	Water	7196A	
300-1505-13	B337F9	Total/NA	Water	7196A	
300-1505-13 DU	B337F9	Total/NA	Water	7196A	
300-1505-13 MS	B337F9	Total/NA	Water	7196A	
300-1505-14	B337H1	Total/NA	Water	7196A	
300-1505-15	B337J8	Total/NA	Water	7196A	
300-1505-16	B337J7	Total/NA	Water	7196A	
300-1505-17	B337J4	Total/NA	Water	7196A	
300-1505-18	B337J5	Total/NA	Water	7196A	
300-1505-19	B336W9	Total/NA	Water	7196A	
300-1505-20	B336W8	Total/NA	Water	7196A	
300-1505-21	B336W1	Total/NA	Water	7196A	
300-1505-22	B336W2	Total/NA	Water	7196A	
LCS 300-1981/32	Lab Control Sample	Total/NA	Water	7196A	
LCS 300-1981/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-1981/3	Method Blank	Total/NA	Water	7196A	
MB 300-1981/31	Method Blank	Total/NA	Water	7196A	

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337K6

Date Collected: 11/12/15 10:48

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-1

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			1981	11/12/15 17:41	AMC	TAL RCH

Client Sample ID: B337K7

Date Collected: 11/12/15 10:48

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-2

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			1981	11/12/15 17:42	AMC	TAL RCH

Client Sample ID: B337J1

Date Collected: 11/12/15 09:56

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-3

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			1981	11/12/15 17:42	AMC	TAL RCH

Client Sample ID: B337J2

Date Collected: 11/12/15 09:56

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-4

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			1981	11/12/15 17:42	AMC	TAL RCH

Client Sample ID: B337K4

Date Collected: 11/12/15 10:41

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-5

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			1981	11/12/15 17:43	AMC	TAL RCH

Client Sample ID: B337K3

Date Collected: 11/12/15 10:41

Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-6

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			1981	11/12/15 17:45	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337K0

Date Collected: 11/12/15 10:32
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-7

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			1981	11/12/15 17:46	AMC	TAL RCH

Client Sample ID: B337K1

Date Collected: 11/12/15 10:32
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-8

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			1981	11/12/15 17:46	AMC	TAL RCH

Client Sample ID: B336X2

Date Collected: 11/12/15 11:10
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-9

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	7196A		1			1981	11/12/15 17:47	AMC	TAL RCH

Client Sample ID: B336X1

Date Collected: 11/12/15 11:10
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-10

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	7196A		1			1981	11/12/15 17:47	AMC	TAL RCH

Client Sample ID: B336W5

Date Collected: 11/12/15 11:25
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-11

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	7196A		1			1981	11/12/15 17:47	AMC	TAL RCH

Client Sample ID: B336W6

Date Collected: 11/12/15 11:25
 Date Received: 11/12/15 14:25

Lab Sample ID: 300-1505-12

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	7196A		1			1981	11/12/15 17:50	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B337F9

Lab Sample ID: 300-1505-13

Date Collected: 11/12/15 09:01

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:51	AMC	TAL RCH

Client Sample ID: B337H1

Lab Sample ID: 300-1505-14

Date Collected: 11/12/15 09:01

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:52	AMC	TAL RCH

Client Sample ID: B337J8

Lab Sample ID: 300-1505-15

Date Collected: 11/12/15 10:16

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:55	AMC	TAL RCH

Client Sample ID: B337J7

Lab Sample ID: 300-1505-16

Date Collected: 11/12/15 10:16

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:56	AMC	TAL RCH

Client Sample ID: B337J4

Lab Sample ID: 300-1505-17

Date Collected: 11/12/15 10:05

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:56	AMC	TAL RCH

Client Sample ID: B337J5

Lab Sample ID: 300-1505-18

Date Collected: 11/12/15 10:05

Matrix: Water

Date Received: 11/12/15 14:25

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			1981	11/12/15 17:56	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: B336W9

Lab Sample ID: 300-1505-19

Date Collected: 11/12/15 11:17
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 17:56	AMC	TAL RCH

Client Sample ID: B336W8

Lab Sample ID: 300-1505-20

Date Collected: 11/12/15 11:17
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 17:57	AMC	TAL RCH

Client Sample ID: B336W1

Lab Sample ID: 300-1505-21

Date Collected: 11/12/15 09:33
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 17:57	AMC	TAL RCH

Client Sample ID: B336W2

Lab Sample ID: 300-1505-22

Date Collected: 11/12/15 09:33
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 18:00	AMC	TAL RCH

Client Sample ID: B336W4

Lab Sample ID: 300-1505-23

Date Collected: 11/12/15 11:25
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1965	11/12/15 23:30	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1966	11/12/15 23:30	CPM	TAL RCH

Client Sample ID: B337F9

Lab Sample ID: 300-1505-13 DU

Date Collected: 11/12/15 09:01
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 17:52	AMC	TAL RCH

Client Sample ID: Duplicate

Lab Sample ID: 300-1506-A-2 DU

Date Collected: 11/12/15 10:02

Matrix: Water

Date Received: 11/12/15 14:25

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		1965	11/12/15 22:30	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1966	11/12/15 22:30	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1965/43

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		1965	11/12/15 21:45	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1966/43

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		1966	11/12/15 21:45	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1981/32

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			1981	11/12/15 17:51	AMC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1981/4

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			1981	11/12/15 17:33	AMC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1965/42

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		1965	11/12/15 21:30	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1966/42

Date Collected: N/A
 Date Received: N/A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		1966	11/12/15 21:30	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1981/3

Date Collected: N/A
 Date Received: N/A

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			1981	11/12/15 17:32	AMC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1981/31

Date Collected: N/A
 Date Received: N/A

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			1981	11/12/15 17:50	AMC	TAL RCH

Client Sample ID: B337F9

Lab Sample ID: 300-1505-13 MS

Date Collected: 11/12/15 09:01
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1		3.0 mL	1981	11/12/15 17:51	AMC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-1506-A-2 MS

Date Collected: 11/12/15 10:02
 Date Received: 11/12/15 14:25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1965	11/12/15 22:15	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1966	11/12/15 22:15	CPM	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: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
SDG: WC0593

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



Client: CH2M Hill Plateau Remediation Company
 Project/Site: CH2M Hill Chemical

TestAmerica Job ID: 300-1505-1
 SDG: WC0593

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1505-1	B337K6	Water	11/12/15 10:48	11/12/15 14:25
300-1505-2	B337K7	Water	11/12/15 10:48	11/12/15 14:25
300-1505-3	B337J1	Water	11/12/15 09:56	11/12/15 14:25
300-1505-4	B337J2	Water	11/12/15 09:56	11/12/15 14:25
300-1505-5	B337K4	Water	11/12/15 10:41	11/12/15 14:25
300-1505-6	B337K3	Water	11/12/15 10:41	11/12/15 14:25
300-1505-7	B337K0	Water	11/12/15 10:32	11/12/15 14:25
300-1505-8	B337K1	Water	11/12/15 10:32	11/12/15 14:25
300-1505-9	B336X2	Water	11/12/15 11:10	11/12/15 14:25
300-1505-10	B336X1	Water	11/12/15 11:10	11/12/15 14:25
300-1505-11	B336W5	Water	11/12/15 11:25	11/12/15 14:25
300-1505-12	B336W6	Water	11/12/15 11:25	11/12/15 14:25
300-1505-13	B337F9	Water	11/12/15 09:01	11/12/15 14:25
300-1505-14	B337H1	Water	11/12/15 09:01	11/12/15 14:25
300-1505-15	B337J8	Water	11/12/15 10:16	11/12/15 14:25
300-1505-16	B337J7	Water	11/12/15 10:16	11/12/15 14:25
300-1505-17	B337J4	Water	11/12/15 10:05	11/12/15 14:25
300-1505-18	B337J5	Water	11/12/15 10:05	11/12/15 14:25
300-1505-19	B336W9	Water	11/12/15 11:17	11/12/15 14:25
300-1505-20	B336W8	Water	11/12/15 11:17	11/12/15 14:25
300-1505-21	B336W1	Water	11/12/15 09:33	11/12/15 14:25
300-1505-22	B336W2	Water	11/12/15 09:33	11/12/15 14:25
300-1505-23	B336W4	Water	11/12/15 11:25	11/12/15 14:25

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1505-1

SDG Number: WC0593

Login Number: 1505

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.	True	
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.	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	

