

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: 300-1513-1
TestAmerica Sample Delivery Group: WC0600
Client Project/Site: CHPRC Chemical Hanford

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 2:22:52 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.



LINKS

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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
N	MS, MSD: Spike recovery is outside acceptance limits.
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: 300-1513-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1513-1**

Comments

No additional comments.

Receipt

The samples were received on 11/13/2015 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

HPLC/IC

Method 300.0: Manual integration was performed on the following sample for Nitrite as N: B335P2 (300-1513-20).

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

General Chemistry

Method 7196A: The matrix spike (MS) recoveries for analytical batch 300-2033 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-011-179
Page 1 of 1

Collector	K.C. Patterson/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-50681 / 33	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
			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
B335F5	Y	NOV 13 2015	1335	1x60-mL aG	7196_CRF6: COMMON	24 Hours	Cool <=6C
B335F4	N	W	↓	1x60-mL aG	7196_CRF6: COMMON	24 Hours	Cool <=6C



300-1513 COC

#1513
WCO608

December 07 2015

Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.C. Patterson/CHPRC			NOV 13 2015	F.M. Hall/CHPRC			NOV 13 2015	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By			NOV 13 2015	J. Pitesz, TARL			NOV 13 2015	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Reinquished By								

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	DL Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>82 / 7</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 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
B33649	N		NOV 13 2015	1133	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33651	Y	W	↓	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#1513
w/colored

December 07 2015

Relinquished By	DL Floyd/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1215	Received By	F.M. Hall/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1215
Relinquished By	F.M. Hall/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1500	Received By	J. Friesz, TARR	Print	Sign	Date/Time	NOV 13 2015 1500
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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Collector	K.C. Paterson/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hamford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 81/32	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURY	Priority:	30 Days 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
B33555	N	NOV 13 2015	1254	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33557	Y	W		1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#1513
C06060

December 07 2015

Relinquished By		Print	K.C. Paterson/CHPRC	Date/Time	NOV 13 2015 1500	Received By		Print	J. Friesz, TARI	Date/Time	NOV 13 2015 1500	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By		Print	F.M. Hall/CHPRC	Date/Time	NOV 13 2015 1500	Received By		Print	J. Friesz, TARI	Date/Time	NOV 13 2015 1500		

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

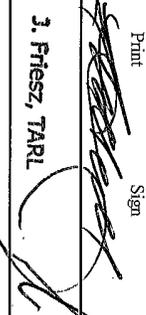
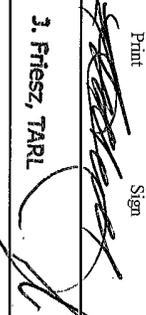
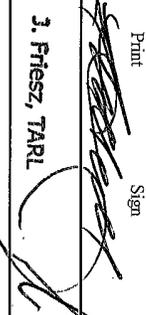
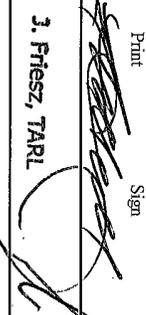
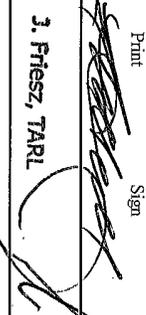
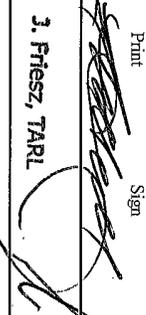
C.O.C. #
S16-011-158
Page 1 of 1

Collector	K.C. Patterson/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-50681 / 32	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

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B33563	N	NOV 13 2015	0700	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33567	Y	W	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#1513
W0660

Relinquished By		Print	K.C. Patterson/CHPRC	Sign		Date/Time	NOV 13 2015 1500	Received By		Print	J. Friesz, TARL	Sign		Date/Time	NOV 13 2015 1500	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By		Print	F.M. Hall/CHPRC	Sign		Date/Time	NOV 13 2015 1500	Received By		Print	J. Friesz, TARL	Sign		Date/Time	NOV 13 2015 1500	Matrix *	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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December 07, 2015

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-011-160
Page 1 of 1

Collector	K.C. Paterson/CH/RC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hamford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>81 / 32</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	SURY	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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B33564	N	W	<u>114D</u> NOV 13 2015		1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33568	Y	W			1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes No

December 07 2015

Relinquished By	<i>[Signature]</i> K.C. Paterson/CH/RC	Print	Sign	Date/Time	<u>1500</u> NOV 13 2015	Received By	<i>[Signature]</i> F.M. Hall/CH/RC	Print	Sign	Date/Time	<u>1500</u> NOV 13 2015
Relinquished By	<i>[Signature]</i>			Date/Time	<u>1500</u> NOV 13 2015	Received By	<i>[Signature]</i> J. Piesz, TARL			Date/Time	<u>1500</u> NOV 13 2015
Relinquished By	<i>[Signature]</i>			Date/Time		Received By				Date/Time	

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

#1513
#1530
Open 11/3/15
WCO 660

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	DL Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 82/7	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
			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
B33645	Y	NOV 13 2015	1054	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33643	N	W	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

OF 11/23/15
#1532
#1513
WCO650

December 07, 2015

Relinquished By	DL Floyd/CHPRC	Print		Sign		Date/Time	NOV 13 2015 1715	Received By	F.M. Heilich/CHPRC	Print		Sign		Date/Time	NOV 13 2015 1215	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	F.M. Heilich/CHPRC	Print		Sign		Date/Time	NOV 13 2015 1500	Received By	J. Friesz, TARK	Print		Sign		Date/Time	NOV 13 2015 1500			
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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Collector	DL Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 87-1+8	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
			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
B335P4	N	NOV 13 2015	1224	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B335P6	Y	W	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

December 07, 2015

Reinquished By	DL Floyd/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1230	Received By	F.M. Hall/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1230
Reinquished By	F.M. Hall/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1500	Received By	J. Piesz, TARI	Print	Sign	Date/Time	NOV 13 2015 1500
Reinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

#1513
w/colored

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	D.L. Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 82-7	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Preservative		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B33642	N	W	NOV 13 2015	1054	1x500-mL P	300.0_ANIONS_IC: COMM/ON: 300.0_ANIONS_IC: GW 02	48 Hours	Cool <=6C

#1513
W C0600

December 07 2015

Relinquished By	D.L. Floyd/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1215	Received By	F.M. Haul/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1215	Matrix *
Relinquished By	F.M. Haul/CHPRC	Print	Sign	Date/Time	NOV 13 2015 1500	Received By	J. Friesz, TARU	Print	Sign	Date/Time	NOV 13 2015 1500	S = Soil
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		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
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DL = Drum Solids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		T = Tissue
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		WI = Wipe
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		L = Liquid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		V = Vegetation
Relinquished 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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CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

S16-011-352

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Collector	K.C. Patterson/CHPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	S16-011		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071	
Project Title	SURV, NOVEMBER 2016		Logbook No.	HNF-N-506 81 / 32		Ice Chest No.	N/A	
Shipped To (Lab)	TestAmerica Incorporated, Richland		Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A	
Protocol	SURV		Priority:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY			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	
B33BF4	N	NOV 13 2015	1254	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C	

December 07 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.C. Patterson/CHPRC			NOV 13 2015	F.M. Hauck/CHPRC			NOV 13 2015	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
F.M. Hauck/CHPRC			NOV 13 2015	J. Hiesz, TARI			NOV 13 2015	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *

W66608
H1513

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. #

S16-011-354

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Collector	K.C. Paterson/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 <i>81 / 32</i>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURY	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
B33BF6	N	<i>NOV 13 2015</i>	<i>0700</i>	1x500-mL P	300.0 ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

December 07 2015

Relinquished By	<i>K.C. Paterson/CHPRC</i>	Print	<i>[Signature]</i>	Signature	Date/Time
					<i>NOV 13 2015</i>
Relinquished By	<i>F.M. Hall/CHPRC</i>	Print	<i>[Signature]</i>	Signature	Date/Time
					<i>NOV 13 2015 1500</i>
Relinquished By		Print		Signature	Date/Time
					<i>NOV 13 2015 1500</i>
Relinquished By		Print		Signature	Date/Time
					<i>NOV 13 2015 1500</i>

WCO600
#1513

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

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-011-353
Page 1 of 1

Collector	K.C. Paterson/CJPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	S16-011		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071	
Project Title	SURY, NOVEMBER 2016		Logbook No.	HNF-N-506 <u>81 / 32</u>		Ice Chest No.	N/A	
Shipped To (Lab)	TestAmerica Incorporated, Richland		Method of Shipment	GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.	N/A	
Protocol	SURV		Priority:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS			Hold Time		
*** 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			PRIORITY			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
B33BF5	N	NOV 13 2015	1140	1x500-ml P	300.0 ANIONS_IC: COMMON	48 Hours	Cool <=6C

#1513
WCO60D

December 07, 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
K.C. Paterson/CJPRC			NOV 13 2015	F.M. Hall/CJPRC			NOV 13 2015	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 W1 = Wipe L = Liquid V = Vegetation X = Other
F.M. Hall/CJPRC			NOV 13 2015	J. Finessz, TARL			NOV 13 2015	
Relinquished By			Date/Time	Received By			Date/Time	

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

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-011-368
Page 1 of 1

Collector	DL Floyd/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>8217</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 438.1			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
B33BJ0	N	NOV 13 2015	1133	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

Reinquished By	DL Floyd/CHPRC	Print	Sign	Date/Time	Received By	F.M. Hancock	Print	Sign	Date/Time
Reinquished By	F.M. Hancock			NOV 13 2015 1500	Received By	J. Friesz, TARI			NOV 13 2015 1215
Reinquished By				NOV 13 2015	Received By				NOV 13 2015 1500

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

WCO600
#1530
SF 11/13/15
#1513

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. #

S16-011-202

Page 1 of 1

Collector	DL Feydeh/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 82 / 748	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	SURV	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Hold Time		
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis
B335F2	N	NOV 13 2015	1224	1x500-mL P	300.0 ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

December 07 2015

Relinquished By	Print DL Feydeh/CHPRC	Sign	Date/Time	Received By	Print F.M. Haulich/CHPRC	Sign	Date/Time
Relinquished By			NOV 13 2015 1230	Received By			NOV 13 2015 1230
Relinquished By	F.M. Haulich/CHPRC		NOV 13 2015 1500	Received By	J. Friesz, TARKL		NOV 13 2015 1500
Relinquished By				Received By			
Relinquished By				Received By			

W60600
#1513
TFN11/3/15
11530

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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B335F5

Lab Sample ID: 300-1513-1

No Detections.

Client Sample ID: B335F4

Lab Sample ID: 300-1513-2

No Detections.

Client Sample ID: B33649

Lab Sample ID: 300-1513-3

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

Client Sample ID: B33651

Lab Sample ID: 300-1513-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0032	B N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33555

Lab Sample ID: 300-1513-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0067	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33557

Lab Sample ID: 300-1513-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0067	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33563

Lab Sample ID: 300-1513-7

No Detections.

Client Sample ID: B33567

Lab Sample ID: 300-1513-8

No Detections.

Client Sample ID: B33564

Lab Sample ID: 300-1513-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33568

Lab Sample ID: 300-1513-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33645

Lab Sample ID: 300-1513-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0097	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33643

Lab Sample ID: 300-1513-12

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B33643 (Continued)**Lab Sample ID: 300-1513-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0093	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B335P4**Lab Sample ID: 300-1513-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.023	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B335P6**Lab Sample ID: 300-1513-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.022	N	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33642**Lab Sample ID: 300-1513-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	4.8	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.24	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	73	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

Client Sample ID: B33BF4**Lab Sample ID: 300-1513-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.15	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	190	D	1.3	0.63	mg/L	5		300.0	Total/NA

Client Sample ID: B33BF6**Lab Sample ID: 300-1513-17**

No Detections.

Client Sample ID: B33BF5**Lab Sample ID: 300-1513-18**

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	6.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.15	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	200	D	1.3	0.63	mg/L	5		300.0	Total/NA

Client Sample ID: B33BJ0**Lab Sample ID: 300-1513-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.20	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	120	D	1.3	0.63	mg/L	5		300.0	Total/NA

Client Sample ID: B335P2**Lab Sample ID: 300-1513-20**

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

December 07, 2015

Detection Summary

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

TestAmerica Job ID: 300-1513-1
SDG: WC0600

Client Sample ID: B335P2 (Continued)

Lab Sample ID: 300-1513-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.9	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	1.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.17	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.046	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	37	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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B335F5

Date Collected: 11/13/15 13:35

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U N	0.0040	0.0015	mg/L	-		11/13/15 18:19	1

Client Sample ID: B335F4

Date Collected: 11/13/15 13:35

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U N	0.0040	0.0015	mg/L	-		11/13/15 18:20	1

Client Sample ID: B33649

Date Collected: 11/13/15 11:33

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0025	B N	0.0040	0.0015	mg/L	-		11/13/15 18:20	1

Client Sample ID: B33651

Date Collected: 11/13/15 11:33

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0032	B N	0.0040	0.0015	mg/L	-		11/13/15 18:20	1

Client Sample ID: B33555

Date Collected: 11/13/15 12:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0067	N	0.0040	0.0015	mg/L	-		11/13/15 18:21	1

Client Sample ID: B33557

Date Collected: 11/13/15 12:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0067	N	0.0040	0.0015	mg/L	-		11/13/15 18:21	1

Client Sample ID: B33563

Date Collected: 11/13/15 07:00

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U N	0.0040	0.0015	mg/L	-		11/13/15 18:24	1

December 07, 2015

Client Sample Results

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

TestAmerica Job ID: 300-1513-1
SDG: WC0600

Client Sample ID: B33567
Date Collected: 11/13/15 07:00
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U N	0.0040	0.0015	mg/L	-		11/13/15 18:25	1

Client Sample ID: B33564
Date Collected: 11/13/15 11:40
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015	N	0.0040	0.0015	mg/L	-		11/13/15 18:25	1

Client Sample ID: B33568
Date Collected: 11/13/15 11:40
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015	N	0.0040	0.0015	mg/L	-		11/13/15 18:25	1

Client Sample ID: B33645
Date Collected: 11/13/15 10:54
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0097	N	0.0040	0.0015	mg/L	-		11/13/15 18:25	1

Client Sample ID: B33643
Date Collected: 11/13/15 10:54
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-12
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0093	N	0.0040	0.0015	mg/L	-		11/13/15 18:26	1

Client Sample ID: B335P4
Date Collected: 11/13/15 12:24
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-13
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.023	N	0.0040	0.0015	mg/L	-		11/13/15 18:26	1

Client Sample ID: B335P6
Date Collected: 11/13/15 12:24
Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-14
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.022	N	0.0040	0.0015	mg/L	-		11/13/15 18:29	1

TestAmerica Richland

December 07, 2015

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: CHPRC Chemical HanfordTestAmerica Job ID: 300-1513-1
SDG: WC0600

Client Sample ID: B33642

Date Collected: 11/13/15 10:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15	D	0.40	0.20	mg/L			11/13/15 16:54	2
Nitrate as N	4.8	D	0.056	0.028	mg/L			11/13/15 16:54	2
Fluoride	0.24	D	0.10	0.050	mg/L			11/13/15 16:54	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/13/15 16:54	2
Orthophosphate as P	0.082	U	0.16	0.082	mg/L			11/13/15 16:54	2
Sulfate	73	D	0.50	0.25	mg/L			11/13/15 16:54	2
Bromide	0.21	B D	0.25	0.13	mg/L			11/13/15 16:54	2

Client Sample ID: B33BF4

Date Collected: 11/13/15 12:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-16

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			11/13/15 17:39	2
Nitrate as N	6.0	D	0.056	0.028	mg/L			11/13/15 17:39	2
Fluoride	0.15	D	0.10	0.050	mg/L			11/13/15 17:39	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/13/15 17:39	2
Sulfate	190	D	1.3	0.63	mg/L			11/13/15 20:10	5

Client Sample ID: B33BF6

Date Collected: 11/13/15 07:00

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-17

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			11/13/15 17:54	2
Nitrate as N	0.028	U	0.056	0.028	mg/L			11/13/15 17:54	2
Fluoride	0.050	U	0.10	0.050	mg/L			11/13/15 17:54	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/13/15 17:54	2
Sulfate	0.25	U	0.50	0.25	mg/L			11/13/15 17:54	2

Client Sample ID: B33BF5

Date Collected: 11/13/15 11:40

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-18

Matrix: Water

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			11/13/15 18:09	2
Nitrate as N	6.1	D	0.056	0.028	mg/L			11/13/15 18:09	2
Fluoride	0.15	D	0.10	0.050	mg/L			11/13/15 18:09	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/13/15 18:09	2
Sulfate	200	D	1.3	0.63	mg/L			11/13/15 20:40	5

TestAmerica Richland

Client Sample Results

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B33BJ0

Date Collected: 11/13/15 11:33

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-19

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	D	0.40	0.20	mg/L			11/13/15 18:24	2
Nitrate as N	5.1	D	0.056	0.028	mg/L			11/13/15 18:24	2
Fluoride	0.20	D	0.10	0.050	mg/L			11/13/15 18:24	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/13/15 18:24	2
Sulfate	120	D	1.3	0.63	mg/L			11/13/15 20:55	5

Client Sample ID: B335P2

Date Collected: 11/13/15 12:24

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-20

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9	D	0.40	0.20	mg/L			11/13/15 18:39	2
Nitrate as N	1.1	D	0.056	0.028	mg/L			11/13/15 18:39	2
Fluoride	0.17	D	0.10	0.050	mg/L			11/13/15 18:39	2
Nitrite as N	0.046	B D	0.076	0.038	mg/L			11/13/15 18:39	2
Sulfate	37	D	0.50	0.25	mg/L			11/13/15 18:39	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-1986/5
Matrix: Water
Analysis Batch: 1986

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			11/13/15 13:06	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/13/15 13:06	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/13/15 13:06	1

Lab Sample ID: LCS 300-1986/6
Matrix: Water
Analysis Batch: 1986

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	2.38		mg/L		105	80 - 120
Nitrite as N	3.04	3.25		mg/L		107	80 - 120
Orthophosphate as P	6.53	6.91		mg/L		106	80 - 120

Lab Sample ID: 300-1513-15 MS
Matrix: Water
Analysis Batch: 1986

Client Sample ID: B33642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	4.8	D	0.452	5.26	D	mg/L		102	75 - 125
Nitrite as N	0.038	U	0.609	0.568	D	mg/L		93	75 - 125
Orthophosphate as P	0.082	U	1.31	1.08	D	mg/L		83	75 - 125

Lab Sample ID: 300-1513-15 DU
Matrix: Water
Analysis Batch: 1986

Client Sample ID: B33642
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	4.8	D	4.74	D	mg/L		1	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.082	U	0.082	U	mg/L		NC	20

Lab Sample ID: MB 300-1987/5
Matrix: Water
Analysis Batch: 1987

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			11/13/15 13:06	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/13/15 13:06	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/13/15 13:06	1
Bromide	0.063	U	0.13	0.063	mg/L			11/13/15 13:06	1

Lab Sample ID: LCS 300-1987/6
Matrix: Water
Analysis Batch: 1987

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	16.7		mg/L		104	80 - 120
Fluoride	4.00	4.22		mg/L		105	80 - 120
Sulfate	20.0	21.1		mg/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-1987/6
 Matrix: Water
 Analysis Batch: 1987

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: 300-1513-15 MS
 Matrix: Water
 Analysis Batch: 1987

Client Sample ID: B33642
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15	D	3.20	18.4	D	mg/L		104	75 - 125
Fluoride	0.24	D	0.800	1.03	D	mg/L		99	75 - 125
Sulfate	73	D	4.00	76.6	D	mg/L		98	75 - 125
Bromide	0.21	B D	2.00	2.02	D	mg/L		91	75 - 125

Lab Sample ID: 300-1513-15 DU
 Matrix: Water
 Analysis Batch: 1987

Client Sample ID: B33642
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	15	D	14.9	D	mg/L		1	20
Fluoride	0.24	D	0.233	D	mg/L		1	20
Sulfate	73	D	71.8	D	mg/L		1	20
Bromide	0.21	B D	0.207	B D	mg/L		0.7	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-2033/3
 Matrix: Water
 Analysis Batch: 2033

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			11/13/15 18:16	1

Lab Sample ID: LCS 300-2033/4
 Matrix: Water
 Analysis Batch: 2033

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	0.258		mg/L		103	80 - 120

Lab Sample ID: 300-1513-1 MS
 Matrix: Water
 Analysis Batch: 2033

Client Sample ID: B335F5
 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 N	0.0500	0.0213	N	mg/L		43	85 - 115

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 300-1513-1 DU
 Matrix: Water
 Analysis Batch: 2033

Client Sample ID: B335F5
 Prep Type: Total/NA

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

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HPLC/IC**Analysis Batch: 1986**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1513-15	B33642	Total/NA	Water	300.0	
300-1513-15 DU	B33642	Total/NA	Water	300.0	
300-1513-15 MS	B33642	Total/NA	Water	300.0	
300-1513-16	B33BF4	Total/NA	Water	300.0	
300-1513-17	B33BF6	Total/NA	Water	300.0	
300-1513-18	B33BF5	Total/NA	Water	300.0	
300-1513-19	B33BJ0	Total/NA	Water	300.0	
300-1513-20	B335P2	Total/NA	Water	300.0	
LCS 300-1986/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1986/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 1987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1513-15	B33642	Total/NA	Water	300.0	
300-1513-15 DU	B33642	Total/NA	Water	300.0	
300-1513-15 MS	B33642	Total/NA	Water	300.0	
300-1513-16	B33BF4	Total/NA	Water	300.0	
300-1513-16	B33BF4	Total/NA	Water	300.0	
300-1513-17	B33BF6	Total/NA	Water	300.0	
300-1513-18	B33BF5	Total/NA	Water	300.0	
300-1513-18	B33BF5	Total/NA	Water	300.0	
300-1513-19	B33BJ0	Total/NA	Water	300.0	
300-1513-19	B33BJ0	Total/NA	Water	300.0	
300-1513-20	B335P2	Total/NA	Water	300.0	
LCS 300-1987/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1987/5	Method Blank	Total/NA	Water	300.0	

General Chemistry**Analysis Batch: 2033**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1513-1	B335F5	Total/NA	Water	7196A	
300-1513-1 DU	B335F5	Total/NA	Water	7196A	
300-1513-1 MS	B335F5	Total/NA	Water	7196A	
300-1513-2	B335F4	Total/NA	Water	7196A	
300-1513-3	B33649	Total/NA	Water	7196A	
300-1513-4	B33651	Total/NA	Water	7196A	
300-1513-5	B33555	Total/NA	Water	7196A	
300-1513-6	B33557	Total/NA	Water	7196A	
300-1513-7	B33563	Total/NA	Water	7196A	
300-1513-8	B33567	Total/NA	Water	7196A	
300-1513-9	B33564	Total/NA	Water	7196A	
300-1513-10	B33568	Total/NA	Water	7196A	
300-1513-11	B33645	Total/NA	Water	7196A	
300-1513-12	B33643	Total/NA	Water	7196A	
300-1513-13	B335P4	Total/NA	Water	7196A	
300-1513-14	B335P6	Total/NA	Water	7196A	
LCS 300-2033/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-2033/3	Method Blank	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B335F5

Date Collected: 11/13/15 13:35

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-1

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			2033	11/13/15 18:19	AMC	TAL RCH

Client Sample ID: B335F4

Date Collected: 11/13/15 13:35

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-2

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			2033	11/13/15 18:20	AMC	TAL RCH

Client Sample ID: B33649

Date Collected: 11/13/15 11:33

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-3

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			2033	11/13/15 18:20	AMC	TAL RCH

Client Sample ID: B33651

Date Collected: 11/13/15 11:33

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-4

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			2033	11/13/15 18:20	AMC	TAL RCH

Client Sample ID: B33555

Date Collected: 11/13/15 12:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-5

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			2033	11/13/15 18:21	AMC	TAL RCH

Client Sample ID: B33557

Date Collected: 11/13/15 12:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-6

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			2033	11/13/15 18:21	AMC	TAL RCH

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B33563

Date Collected: 11/13/15 07:00

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-7

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			2033	11/13/15 18:24	AMC	TAL RCH

Client Sample ID: B33567

Date Collected: 11/13/15 07:00

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-8

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			2033	11/13/15 18:25	AMC	TAL RCH

Client Sample ID: B33564

Date Collected: 11/13/15 11:40

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-9

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			2033	11/13/15 18:25	AMC	TAL RCH

Client Sample ID: B33568

Date Collected: 11/13/15 11:40

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-10

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			2033	11/13/15 18:25	AMC	TAL RCH

Client Sample ID: B33645

Date Collected: 11/13/15 10:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-11

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			2033	11/13/15 18:25	AMC	TAL RCH

Client Sample ID: B33643

Date Collected: 11/13/15 10:54

Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-12

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			2033	11/13/15 18:26	AMC	TAL RCH

Client Sample ID: B335P4

Date Collected: 11/13/15 12:24
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2033	11/13/15 18:26	AMC	TAL RCH

Client Sample ID: B335P6

Date Collected: 11/13/15 12:24
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			2033	11/13/15 18:29	AMC	TAL RCH

Client Sample ID: B33642

Date Collected: 11/13/15 10:54
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1986	11/13/15 16:54	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 16:54	CPM	TAL RCH

Client Sample ID: B33BF4

Date Collected: 11/13/15 12:54
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1986	11/13/15 17:39	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 17:39	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1987	11/13/15 20:10	CPM	TAL RCH

Client Sample ID: B33BF6

Date Collected: 11/13/15 07:00
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1986	11/13/15 17:54	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 17:54	CPM	TAL RCH

Client Sample ID: B33BF5

Date Collected: 11/13/15 11:40
 Date Received: 11/13/15 15:00

Lab Sample ID: 300-1513-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1986	11/13/15 18:09	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 18:09	CPM	TAL RCH

Client Sample ID: B33BF5

Lab Sample ID: 300-1513-18

Date Collected: 11/13/15 11:40
 Date Received: 11/13/15 15:00

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		5	10 mL		1987	11/13/15 20:40	CPM	TAL RCH

Client Sample ID: B33BJ0

Lab Sample ID: 300-1513-19

Date Collected: 11/13/15 11:33
 Date Received: 11/13/15 15:00

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		1986	11/13/15 18:24	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 18:24	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1987	11/13/15 20:55	CPM	TAL RCH

Client Sample ID: B335P2

Lab Sample ID: 300-1513-20

Date Collected: 11/13/15 12:24
 Date Received: 11/13/15 15:00

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		1986	11/13/15 18:39	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 18:39	CPM	TAL RCH

Client Sample ID: B335F5

Lab Sample ID: 300-1513-1 DU

Date Collected: 11/13/15 13:35
 Date Received: 11/13/15 15:00

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			2033	11/13/15 18:19	AMC	TAL RCH

Client Sample ID: B33642

Lab Sample ID: 300-1513-15 DU

Date Collected: 11/13/15 10:54
 Date Received: 11/13/15 15:00

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		1986	11/13/15 17:24	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 17:24	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1986/6

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		1986	11/13/15 13:21	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-1987/6

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		1987	11/13/15 13:21	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2033/4

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			2033	11/13/15 18:16	AMC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1986/5

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		1986	11/13/15 13:06	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1987/5

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		1987	11/13/15 13:06	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2033/3

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			2033	11/13/15 18:16	AMC	TAL RCH

Client Sample ID: B335F5

Lab Sample ID: 300-1513-1 MS

Date Collected: 11/13/15 13:35

Matrix: Water

Date Received: 11/13/15 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1		3.0 mL	2033	11/13/15 18:16	AMC	TAL RCH

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

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Client Sample ID: B33642

Lab Sample ID: 300-1513-15 MS

Date Collected: 11/13/15 10:54

Matrix: Water

Date Received: 11/13/15 15:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1986	11/13/15 17:09	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1987	11/13/15 17:09	CPM	TAL RCH

Laboratory References:

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

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

TestAmerica Job ID: 300-1513-1
SDG: WC0600

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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1513-1
 SDG: WC0600

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1513-1	B335F5	Water	11/13/15 13:35	11/13/15 15:00
300-1513-2	B335F4	Water	11/13/15 13:35	11/13/15 15:00
300-1513-3	B33649	Water	11/13/15 11:33	11/13/15 15:00
300-1513-4	B33651	Water	11/13/15 11:33	11/13/15 15:00
300-1513-5	B33555	Water	11/13/15 12:54	11/13/15 15:00
300-1513-6	B33557	Water	11/13/15 12:54	11/13/15 15:00
300-1513-7	B33563	Water	11/13/15 07:00	11/13/15 15:00
300-1513-8	B33567	Water	11/13/15 07:00	11/13/15 15:00
300-1513-9	B33564	Water	11/13/15 11:40	11/13/15 15:00
300-1513-10	B33568	Water	11/13/15 11:40	11/13/15 15:00
300-1513-11	B33645	Water	11/13/15 10:54	11/13/15 15:00
300-1513-12	B33643	Water	11/13/15 10:54	11/13/15 15:00
300-1513-13	B335P4	Water	11/13/15 12:24	11/13/15 15:00
300-1513-14	B335P6	Water	11/13/15 12:24	11/13/15 15:00
300-1513-15	B33642	Water	11/13/15 10:54	11/13/15 15:00
300-1513-16	B33BF4	Water	11/13/15 12:54	11/13/15 15:00
300-1513-17	B33BF6	Water	11/13/15 07:00	11/13/15 15:00
300-1513-18	B33BF5	Water	11/13/15 11:40	11/13/15 15:00
300-1513-19	B33BJ0	Water	11/13/15 11:33	11/13/15 15:00
300-1513-20	B335P2	Water	11/13/15 12:24	11/13/15 15:00



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1513-1

SDG Number: WC0600

Login Number: 1513

List Number: 1

Creator: Friesz, Jordan D

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.	N/A	
Residual Chlorine Checked.	N/A	

