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: 300-3479-1
TestAmerica Sample Delivery Group: WC1256
Client Project/Site: W16-007

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

Attn: CPP Sample Management

Authorized for release by:
8/10/2016 11:17:53 AM
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Designee for

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LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Job ID: 300-3479-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3479-1

Comments
No additional comments.

Receipt
The samples were received on 7/14/2016 2:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

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

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W16-007-141 Page 1 of 1

Collector	Scott King /CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, JULY 2016	Logbook No.	HNF-N-506 86/51	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	RCRA	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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35NN4	N	W	7-14-16	0803	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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WC1256

300-3479 COC

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
Scott King /CHPRC	Scott King	JUL 14 2016 0945	Troy Bacon CHPRC	Troy L. Bacon	JUL 14 2016 0945
Troy Bacon CHPRC	Troy L Bacon	JUL 14 2016 1420		B. Bock, TARL	JUL 14 2016 1420

Matrix *

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

PRINTED ON 5/26/2016 FSR ID = FSR10456 A-6004-842 (REV 2)

8/10/2016

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W16-007-132**

Collector	Kevin Patterson CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W16-007	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JULY 2016	**Logbook No.**	HNF-N-506 85/94	**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	RCRA	**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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35NJ3	N	W	JUL 14 2016	1140	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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W C1256

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Kevin Patterson CHPRC			JUL 14 2016 1150	Troy Bacon CHPRC		Troy L. Bacon	JUL 14 2016 1150
Troy Bacon CHPRC		Troy L. Bacon	JUL 14 2016 1420	J. Bock, TARL			JUL 14 2016 1420

Matrix *

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

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W16-007-131 Page 1 of 1

Collector	Kevin Patterson CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, JULY 2016	Logbook No.	HNF-N-506 85/94	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	RCRA	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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35NJ2	N	W	JUL 14 2016	0740	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Kevin Patterson CHPRC	JUL 14 ~~2016~~ 2016 1150 (6/7/14.16)	Troy Bacon CHPRC Troy L. Bacon	JUL 14 2016 1150
Troy Bacon CHPRC Troy L. Bacon	JUL 14 2016 1420	J. Bock, TARL	JUL 14 2016 1420

Matrix *

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

8/10/2016

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W16-007-137 Page 1 of 1

Collector	Scott King /CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-007	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, JULY 2016	Logbook No.	HNF-N-506 86 / 51	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	RCRA	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

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
N/A
Special Handling:N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B35NL6	N	W	7.14.16	0910	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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WC1256

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
Scott King /CHPRC	JUL 14 2016 0945	Troy Bacon CHPRC	JUL 14 2016 0945
Troy Bacon CHPRC	JUL 14 2016 1420	J. Bock, TARL	JUL 14 2016 1420

Matrix *

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

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Client Sample ID: B35NN4 — Lab Sample ID: 300-3479-1

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	9.2	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.49	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	42	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35NJ3 — Lab Sample ID: 300-3479-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	11	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.47	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	60	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B35NJ2 — Lab Sample ID: 300-3479-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.27	B D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.057	D	0.056	0.028	mg/L	2		300.0	Total/NA

Client Sample ID: B35NL6 — Lab Sample ID: 300-3479-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	9.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.51	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	43	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Client Sample ID: B35NN4

Lab Sample ID: 300-3479-1
Date Collected: 07/14/16 08:03
Matrix: Water
Date Received: 07/14/16 14:20

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			07/15/16 13:03	2
Nitrate as N	9.2	D	0.056	0.028	mg/L			07/15/16 13:03	2
Fluoride	0.49	D	0.10	0.050	mg/L			07/15/16 13:03	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/15/16 13:03	2
Sulfate	42	D	0.50	0.25	mg/L			07/15/16 13:03	2

Client Sample ID: B35NJ3

Lab Sample ID: 300-3479-2
Date Collected: 07/14/16 11:40
Matrix: Water
Date Received: 07/14/16 14:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18	D	0.40	0.20	mg/L			07/15/16 13:48	2
Nitrate as N	11	D	0.056	0.028	mg/L			07/15/16 13:48	2
Fluoride	0.47	D	0.10	0.050	mg/L			07/15/16 13:48	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/15/16 13:48	2
Sulfate	60	D	0.50	0.25	mg/L			07/15/16 13:48	2

Client Sample ID: B35NJ2

Lab Sample ID: 300-3479-3
Date Collected: 07/14/16 07:40
Matrix: Water
Date Received: 07/14/16 14:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.27	B D	0.40	0.20	mg/L			07/15/16 14:04	2
Nitrate as N	0.057	D	0.056	0.028	mg/L			07/15/16 14:04	2
Fluoride	0.050	U D	0.10	0.050	mg/L			07/15/16 14:04	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/15/16 14:04	2
Sulfate	0.25	U D	0.50	0.25	mg/L			07/15/16 14:04	2

Client Sample ID: B35NL6

Lab Sample ID: 300-3479-4
Date Collected: 07/14/16 09:10
Matrix: Water
Date Received: 07/14/16 14:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	D	0.40	0.20	mg/L			07/15/16 14:19	2
Nitrate as N	9.6	D	0.056	0.028	mg/L			07/15/16 14:19	2
Fluoride	0.51	D	0.10	0.050	mg/L			07/15/16 14:19	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/15/16 14:19	2
Sulfate	43	D	0.50	0.25	mg/L			07/15/16 14:19	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4903/5
Matrix: Water
Analysis Batch: 4903

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			07/15/16 12:33	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/15/16 12:33	1

Lab Sample ID: LCS 300-4903/6
Matrix: Water
Analysis Batch: 4903

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.30		mg/L		102	80 - 120
Nitrite as N	3.04	3.11		mg/L		102	80 - 120

Lab Sample ID: 300-3479-1 MS
Matrix: Water
Analysis Batch: 4903

Client Sample ID: B35NN4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	9.2	D	0.452	9.71	D	mg/L		122	75 - 125
Nitrite as N	0.038	U D	0.609	0.537	D	mg/L		88	75 - 125

Lab Sample ID: 300-3479-1 DU
Matrix: Water
Analysis Batch: 4903

Client Sample ID: B35NN4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	9.2	D	9.29	D	mg/L		1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-4904/5
Matrix: Water
Analysis Batch: 4904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			07/15/16 12:33	1
Fluoride	0.025	U	0.050	0.025	mg/L			07/15/16 12:33	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/15/16 12:33	1

Lab Sample ID: LCS 300-4904/6
Matrix: Water
Analysis Batch: 4904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.0		mg/L		100	80 - 120
Fluoride	4.00	4.03		mg/L		101	80 - 120
Sulfate	20.0	20.2		mg/L		101	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3479-1 MS
Matrix: Water
Analysis Batch: 4904

Client Sample ID: B35NN4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	11	D	3.20	14.7	D	mg/L		108	75 - 125		
Fluoride	0.49	D	0.800	1.30	D	mg/L		101	75 - 125		
Sulfate	42	D	4.00	46.6	D	mg/L		120	75 - 125		

Lab Sample ID: 300-3479-1 DU
Matrix: Water
Analysis Batch: 4904

Client Sample ID: B35NN4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	11	D		11.4	D	mg/L				2	20
Fluoride	0.49	D		0.501	D	mg/L				2	20
Sulfate	42	D		42.5	D	mg/L				2	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

HPLC/IC

Analysis Batch: 4903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3479-1	B35NN4	Total/NA	Water	300.0	
300-3479-2	B35NJ3	Total/NA	Water	300.0	
300-3479-3	B35NJ2	Total/NA	Water	300.0	
300-3479-4	B35NL6	Total/NA	Water	300.0	
MB 300-4903/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4903/6	Lab Control Sample	Total/NA	Water	300.0	
300-3479-1 MS	B35NN4	Total/NA	Water	300.0	
300-3479-1 DU	B35NN4	Total/NA	Water	300.0	

Analysis Batch: 4904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3479-1	B35NN4	Total/NA	Water	300.0	
300-3479-2	B35NJ3	Total/NA	Water	300.0	
300-3479-3	B35NJ2	Total/NA	Water	300.0	
300-3479-4	B35NL6	Total/NA	Water	300.0	
MB 300-4904/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4904/6	Lab Control Sample	Total/NA	Water	300.0	
300-3479-1 MS	B35NN4	Total/NA	Water	300.0	
300-3479-1 DU	B35NN4	Total/NA	Water	300.0	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Client Sample ID: B35NN4 — Lab Sample ID: 300-3479-1

Date Collected: 07/14/16 08:03 — **Matrix: Water**
Date Received: 07/14/16 14:20

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			4903	07/15/16 13:03	RLC	TAL RCH
Total/NA	Analysis	300.0		2			4904	07/15/16 13:03	RLC	TAL RCH

Client Sample ID: B35NJ3 — Lab Sample ID: 300-3479-2

Date Collected: 07/14/16 11:40 — **Matrix: Water**
Date Received: 07/14/16 14:20

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			4903	07/15/16 13:48	RLC	TAL RCH
Total/NA	Analysis	300.0		2			4904	07/15/16 13:48	RLC	TAL RCH

Client Sample ID: B35NJ2 — Lab Sample ID: 300-3479-3

Date Collected: 07/14/16 07:40 — **Matrix: Water**
Date Received: 07/14/16 14:20

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			4903	07/15/16 14:04	RLC	TAL RCH
Total/NA	Analysis	300.0		2			4904	07/15/16 14:04	RLC	TAL RCH

Client Sample ID: B35NL6 — Lab Sample ID: 300-3479-4

Date Collected: 07/14/16 09:10 — **Matrix: Water**
Date Received: 07/14/16 14:20

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			4903	07/15/16 14:19	RLC	TAL RCH
Total/NA	Analysis	300.0		2			4904	07/15/16 14:19	RLC	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-4903/5

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			4903	07/15/16 12:33	RLC	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-4904/5

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			4904	07/15/16 12:33	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-4903/6

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			4903	07/15/16 12:48	RLC	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-4904/6

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			4904	07/15/16 12:48	RLC	TAL RCH

Client Sample ID: B35NN4 — Lab Sample ID: 300-3479-1 MS

Date Collected: 07/14/16 08:03
Date Received: 07/14/16 14:20
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			4903	07/15/16 13:18	RLC	TAL RCH
Total/NA	Analysis	300.0		2			4904	07/15/16 13:18	RLC	TAL RCH

Laboratory References:

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

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

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

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: W16-007

TestAmerica Job ID: 300-3479-1
SDG: WC1256

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3479-1	B35NN4	Water	07/14/16 08:03	07/14/16 14:20
300-3479-2	B35NJ3	Water	07/14/16 11:40	07/14/16 14:20
300-3479-3	B35NJ2	Water	07/14/16 07:40	07/14/16 14:20
300-3479-4	B35NL6	Water	07/14/16 09:10	07/14/16 14:20

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3479-1
SDG Number: WC1256

Login Number: 3479
List Number: 1
Creator: Bock, Julie A

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	