

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: 300-6670-1
TestAmerica Sample Delivery Group: WC2653
Client Project/Site: W18-001

For:
CH2M Hill Plateau Remediation Company
825 Jadwin Avenue
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:
1/30/2018 2:43:23 PM

Ashley Worthy, Project Manager I
(509)375-3131
ashley.worthy@testamericainc.com



LINKS

Review your project results through
TotalAccess

Have a Question?



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 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.

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SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0600
Rev. Number: 0
Date Initiated: 03/30/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): W18-001
LABORATORY: TARL

SAMPLING INFORMATION

NUMBER OF SAMPLES: 3
SAMPLE NUMBERS: B3FTX4, B3FTX5, B3FXP4
SAMPLE MATRIX: WATER
SDG NUM(S): WC2653

ISSUE BACKGROUND

CLASS: Chain of Custody Issue (Field)
TYPE: No/Illegible Relinquish/Receipt Date/Time
DESCRIPTION: COC W18-001-242, SAMPLE B3FTX4; Missing time in the first received by box
COC W18-001-340, SAMPLE B3FXP4; Missing time in the first relinquished by and received by boxes
COC W18-001-419, SAMPLE B3FTX5; Missing time in the first relinquished by box

RESOLUTION

PROPOSED RESOLUTION: DOCUMENT AND CLOSE

FINAL RESOLUTION: DOCUMENT AND CLOSE

SUBMITTED BY:

KESSINGER, AL

03/30/2018

ACCEPTED BY:

KILLAND, KE

03/30/2018



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Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

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.

Biology

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Job ID: 300-6670-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-6670-1**

Comments

No additional comments.

Receipt

The samples were received on 1/15/2018 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

HPLC/IC

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

General Chemistry

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

Biology

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

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**CH2MHill Plateau
Remediation Company**

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W18-001-420
Page 1 of 1

Collector: Juan Aguilar
SAF No.: W18-001
Project Title: RCRA, JANUARY 2018
Shipped To (Lab): TestAmerica Incorporated, Rich
Protocol: RCRA
Contact/Requester: Karen Waters-Husted
Sampling Origin: Hanford Site
Logbook No.: HNF-N-506-98/2C
Method of Shipment: GOVERNMENT VEHICLE
Priority: 30 Days
Telephone No.: 509-376-4650
Purchase Order/Charge Code: 300071
Ice Chest No.: N/A
Bill of Lading/Air Bill No.: N/A
Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARK
 ** * 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
B3FTY0	N	W	1-15-19	1104	1x125-ML P	300.0_ANIONS_IC: COMMON	48 Hours	COOL <=6C

03/30/2018

W182653
 W182653

Relinquished By: <i>Juan Aguilar</i> Print First and Last Name: Juan Aguilar Signature: <i>[Signature]</i> Date/Time: JAN 15 2018 11:10	Received By: <i>Frank Hark</i> Print First and Last Name: Frank Hark Signature: <i>[Signature]</i> Date/Time: JAN 15 2018 11:10	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By: <i>Frank Hark</i> Print First and Last Name: Frank Hark Signature: <i>[Signature]</i> Date/Time: JAN 15 2018 11:50	Received By: <i>B. Jorgenson, TARL</i> Print First and Last Name: B. Jorgenson Signature: <i>[Signature]</i> Date/Time: 1-15-18/1152	
Relinquished By: _____ Print First and Last Name: _____ Signature: _____ Date/Time: _____	Received By: _____ Print First and Last Name: _____ Signature: _____ Date/Time: _____	
Relinquished By: _____ Print First and Last Name: _____ Signature: _____ Date/Time: _____	Received By: _____ Print First and Last Name: _____ Signature: _____ Date/Time: _____	
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process): _____ Disposed By: _____ Date/Time: _____		

Client: CH2M Hill Plateau Remediation Company
 Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
 SDG: WC2653

Client Sample ID: B3FTX4

Lab Sample ID: 300-6670-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Total	142		1.00	1.00	MPN/100mL	1		SM 9223B	Total/NA

Client Sample ID: B3FXP4

Lab Sample ID: 300-6670-2

No Detections.

Client Sample ID: B3FTX9

Lab Sample ID: 300-6670-3

No Detections.

Client Sample ID: B3FTF4

Lab Sample ID: 300-6670-4

No Detections.

Client Sample ID: B3FTF7

Lab Sample ID: 300-6670-5

No Detections.

Client Sample ID: B3FTX5

Lab Sample ID: 300-6670-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.7	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	0.45	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	20	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B3FTF5

Lab Sample ID: 300-6670-7

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	14	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.22	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	79	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B3FTY0

Lab Sample ID: 300-6670-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	2.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.43	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	53	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: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Client Sample ID: B3FTX4

Lab Sample ID: 300-6670-1

Date Collected: 01/15/18 09:32
Date Received: 01/15/18 11:50

Matrix: Water

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	142		1.00	1.00	MPN/100mL			01/15/18 13:31	1

Client Sample ID: B3FXP4

Lab Sample ID: 300-6670-2

Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

Matrix: Water

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	1.00	U	1.00	1.00	MPN/100mL			01/15/18 13:31	1

Client Sample ID: B3FTX9

Lab Sample ID: 300-6670-3

Date Collected: 01/15/18 11:04
Date Received: 01/15/18 11:50

Matrix: Water

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	1.00	U	1.00	1.00	MPN/100mL			01/15/18 13:31	1

Client Sample ID: B3FTF4

Lab Sample ID: 300-6670-4

Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

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			01/15/18 13:21	1

Client Sample ID: B3FTF7

Lab Sample ID: 300-6670-5

Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

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			01/15/18 13:20	1

Client Sample ID: B3FTX5

Lab Sample ID: 300-6670-6

Date Collected: 01/15/18 09:32
Date Received: 01/15/18 11:50

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7	D	0.40	0.20	mg/L			01/15/18 15:32	2
Nitrate as N	1.1	D	0.056	0.028	mg/L			01/15/18 15:32	2
Fluoride	0.45	D	0.10	0.050	mg/L			01/15/18 15:32	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			01/15/18 15:32	2
Sulfate	20	D	0.50	0.25	mg/L			01/15/18 15:32	2

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Client Sample ID: B3FTF5

Lab Sample ID: 300-6670-7

Date Collected: 01/15/18 09:57

Matrix: Water

Date Received: 01/15/18 11:50

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			01/15/18 15:16	2
Nitrate as N	14	D	0.14	0.070	mg/L			01/15/18 21:22	5
Fluoride	0.22	D	0.10	0.050	mg/L			01/15/18 15:16	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			01/15/18 15:16	2
Sulfate	79	D	0.50	0.25	mg/L			01/15/18 15:16	2

Client Sample ID: B3FTY0

Lab Sample ID: 300-6670-8

Date Collected: 01/15/18 11:04

Matrix: Water

Date Received: 01/15/18 11:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	0.40	0.20	mg/L			01/15/18 14:28	2
Nitrate as N	2.1	D	0.056	0.028	mg/L			01/15/18 14:28	2
Fluoride	0.43	D	0.10	0.050	mg/L			01/15/18 14:28	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			01/15/18 14:28	2
Sulfate	53	D	0.50	0.25	mg/L			01/15/18 14:28	2

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-10144/5
Matrix: Water
Analysis Batch: 10144

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			01/15/18 13:56	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			01/15/18 13:56	1

Lab Sample ID: LCS 300-10144/6
Matrix: Water
Analysis Batch: 10144

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	2.31		mg/L		102	80 - 120
Nitrite as N	3.04	3.12		mg/L		103	80 - 120

Lab Sample ID: 300-6670-8 MS
Matrix: Water
Analysis Batch: 10144

Client Sample ID: B3FTY0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.1	D	0.452	2.58	D	mg/L		100	75 - 125
Nitrite as N	0.038	U D	0.609	0.519	D	mg/L		85	75 - 125

Lab Sample ID: 300-6670-8 DU
Matrix: Water
Analysis Batch: 10144

Client Sample ID: B3FTY0
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.1	D	2.10	D	mg/L		2	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-10145/5
Matrix: Water
Analysis Batch: 10145

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			01/15/18 13:56	1
Fluoride	0.025	U	0.050	0.025	mg/L			01/15/18 13:56	1
Sulfate	0.13	U	0.25	0.13	mg/L			01/15/18 13:56	1

Lab Sample ID: LCS 300-10145/6
Matrix: Water
Analysis Batch: 10145

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	16.1		mg/L		101	80 - 120
Fluoride	4.00	3.98		mg/L		100	80 - 120
Sulfate	20.0	20.8		mg/L		104	80 - 120

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-6670-8 MS
Matrix: Water
Analysis Batch: 10145

Client Sample ID: B3FTY0
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Chloride	14	D	3.20	16.6	D	mg/L		97	75 - 125
Fluoride	0.43	D	0.800	1.18	D	mg/L		94	75 - 125
Sulfate	53	D	4.00	56.3	D	mg/L		94	75 - 125

Lab Sample ID: 300-6670-8 DU
Matrix: Water
Analysis Batch: 10145

Client Sample ID: B3FTY0
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Chloride	14	D	13.4	D	mg/L		1	20
Fluoride	0.43	D	0.422	D	mg/L		1	20
Sulfate	53	D	52.3	D	mg/L		0.5	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-10156/3
Matrix: Water
Analysis Batch: 10156

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			01/15/18 13:17	1

Lab Sample ID: LCS 300-10156/4
Matrix: Water
Analysis Batch: 10156

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cr (VI)	0.250	0.254		mg/L		102	80 - 120

Lab Sample ID: 300-6670-5 MS
Matrix: Water
Analysis Batch: 10156

Client Sample ID: B3FTF7
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Cr (VI)	0.0015	U	0.0501	0.0532		mg/L		106	75 - 125

Lab Sample ID: 300-6670-5 DU
Matrix: Water
Analysis Batch: 10156

Client Sample ID: B3FTF7
Prep Type: Total/NA

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

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Lab Sample ID: MB 300-10256/8
Matrix: Water
Analysis Batch: 10256

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	1.00	U	1.00	1.00	MPN/100mL			01/15/18 13:31	1

Lab Sample ID: 300-6670-1 DU
Matrix: Water
Analysis Batch: 10256

Client Sample ID: B3FTX4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Coliform, Total	142		135.4		MPN/100mL		5	30

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Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

HPLC/IC

Analysis Batch: 10144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6670-6	B3FTX5	Total/NA	Water	300.0	
300-6670-7	B3FTF5	Total/NA	Water	300.0	
300-6670-7	B3FTF5	Total/NA	Water	300.0	
300-6670-8	B3FTY0	Total/NA	Water	300.0	
MB 300-10144/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10144/6	Lab Control Sample	Total/NA	Water	300.0	
300-6670-8 MS	B3FTY0	Total/NA	Water	300.0	
300-6670-8 DU	B3FTY0	Total/NA	Water	300.0	

Analysis Batch: 10145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6670-6	B3FTX5	Total/NA	Water	300.0	
300-6670-7	B3FTF5	Total/NA	Water	300.0	
300-6670-8	B3FTY0	Total/NA	Water	300.0	
MB 300-10145/5	Method Blank	Total/NA	Water	300.0	
LCS 300-10145/6	Lab Control Sample	Total/NA	Water	300.0	
300-6670-8 MS	B3FTY0	Total/NA	Water	300.0	
300-6670-8 DU	B3FTY0	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 10156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6670-4	B3FTF4	Total/NA	Water	7196A	
300-6670-5	B3FTF7	Total/NA	Water	7196A	
MB 300-10156/3	Method Blank	Total/NA	Water	7196A	
LCS 300-10156/4	Lab Control Sample	Total/NA	Water	7196A	
300-6670-5 MS	B3FTF7	Total/NA	Water	7196A	
300-6670-5 DU	B3FTF7	Total/NA	Water	7196A	

Biology

Analysis Batch: 10256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6670-1	B3FTX4	Total/NA	Water	SM 9223B	
300-6670-2	B3FXP4	Total/NA	Water	SM 9223B	
300-6670-3	B3FTX9	Total/NA	Water	SM 9223B	
MB 300-10256/8	Method Blank	Total/NA	Water	SM 9223B	
LCS 300-10256/3	Lab Control Sample	Total/NA	Water	SM 9223B	
300-6670-1 DU	B3FTX4	Total/NA	Water	SM 9223B	

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Client Sample ID: B3FTX4
Date Collected: 01/15/18 09:32
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-1
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	SM 9223B		1	100 mL	100 mL	10256	01/15/18 13:31	TRH	TAL RCH

Client Sample ID: B3FXP4
Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-2
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	SM 9223B		1	100 mL	100 mL	10256	01/15/18 13:31	TRH	TAL RCH

Client Sample ID: B3FTX9
Date Collected: 01/15/18 11:04
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-3
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	SM 9223B		1	100 mL	100 mL	10256	01/15/18 13:31	TRH	TAL RCH

Client Sample ID: B3FTF4
Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-4
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			10156	01/15/18 13:21	TRH	TAL RCH

Client Sample ID: B3FTF7
Date Collected: 01/15/18 09:57
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-5
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			10156	01/15/18 13:20	TRH	TAL RCH

Client Sample ID: B3FTX5
Date Collected: 01/15/18 09:32
Date Received: 01/15/18 11:50

Lab Sample ID: 300-6670-6
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	300.0		2			10144	01/15/18 15:32	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10145	01/15/18 15:32	RTQ	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Client Sample ID: B3FTF5

Lab Sample ID: 300-6670-7

Date Collected: 01/15/18 09:57

Matrix: Water

Date Received: 01/15/18 11:50

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			10144	01/15/18 15:16	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10145	01/15/18 15:16	RTQ	TAL RCH
Total/NA	Analysis	300.0		5			10144	01/15/18 21:22	RTQ	TAL RCH

Client Sample ID: B3FTY0

Lab Sample ID: 300-6670-8

Date Collected: 01/15/18 11:04

Matrix: Water

Date Received: 01/15/18 11:50

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			10144	01/15/18 14:28	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10145	01/15/18 14:28	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-10144/5

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			10144	01/15/18 13:56	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-10145/5

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			10145	01/15/18 13:56	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-10156/3

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			10156	01/15/18 13:17	TRH	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-10256/8

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	SM 9223B		1	100 mL	100 mL	10256	01/15/18 13:31	TRH	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-10144/6

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			10144	01/15/18 14:12	RTQ	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-10145/6

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			10145	01/15/18 14:12	RTQ	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-10156/4

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			10156	01/15/18 13:17	TRH	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-10256/3

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	SM 9223B		1	100 mL	100 mL	10256	01/15/18 13:31	TRH	TAL RCH

Client Sample ID: B3FTF7

Lab Sample ID: 300-6670-5 MS

Date Collected: 01/15/18 09:57

Matrix: Water

Date Received: 01/15/18 11:50

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			10156	01/15/18 13:17	TRH	TAL RCH

Client Sample ID: B3FTY0

Lab Sample ID: 300-6670-8 MS

Date Collected: 01/15/18 11:04

Matrix: Water

Date Received: 01/15/18 11:50

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			10144	01/15/18 14:44	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			10145	01/15/18 14:44	RTQ	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: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH
SM 9223B	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	TAL RCH

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater",

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: W18-001

TestAmerica Job ID: 300-6670-1
SDG: WC2653

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-6670-1	B3FTX4	Water	01/15/18 09:32	01/15/18 11:50
300-6670-2	B3FXP4	Water	01/15/18 09:57	01/15/18 11:50
300-6670-3	B3FTX9	Water	01/15/18 11:04	01/15/18 11:50
300-6670-4	B3FTF4	Water	01/15/18 09:57	01/15/18 11:50
300-6670-5	B3FTF7	Water	01/15/18 09:57	01/15/18 11:50
300-6670-6	B3FTX5	Water	01/15/18 09:32	01/15/18 11:50
300-6670-7	B3FTF5	Water	01/15/18 09:57	01/15/18 11:50
300-6670-8	B3FTY0	Water	01/15/18 11:04	01/15/18 11:50

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-6670-1

SDG Number: WC2653

Login Number: 6670

List Number: 1

Creator: Jorgenson, Briana F

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	