

June 28, 2017

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: 300-5651-1

TestAmerica Sample Delivery Group: WC2108

Client Project/Site: F12-023

For:

CH2M Hill Plateau Remediation Company

825 Jadwin Avenue

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

6/28/2017 7:57:07 AM

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Designee for

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

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples.



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Qualifiers

HPLC/IC

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	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: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Job ID: 300-5651-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-5651-1**

Comments

No additional comments.

Receipt

The samples were received on 6/13/2017 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.3° 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.

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CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F12-023-319	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Influent Tank, valve T-M3 (V-ME006A)	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16	ACTUAL SAMPLE DEPTH N/A	SAF NO. F12-023	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302841	BILL OF LADING/AIR BILL NO. NA	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO Testamerica Incorporated, Richland					

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	COOL-4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/DATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME 24 Hours	
		TYPE OF CONTAINER	9G
		NO. OF CONTAINER(S)	1
		VOLUME	60ml
		SAMPLE ANALYSIS	7196, CR6: COMMON;
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B3B307	WATER	JUN 13 2017	1205

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w/cans



300-5651 COC

June 28, 2017

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM CHRIS FULTON	DATE/TIME JUN 13 2017 1345	RECEIVED BY/STORED IN Toy Bacon	DATE/TIME JUN 13 2017 1345	TRVL-17-134; ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** The extraction wells associated with this SAF are all located at the Transfer Building.	
RELINQUISHED BY/REMOVED FROM Toy Bacon	DATE/TIME JUN 13 2017 1500	RECEIVED BY/STORED IN J. Bock, TARL	DATE/TIME JUN 13 2017 1500		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F12-023-326	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CSPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Effluent Tank, valve T-M5 (V-MJ030A)	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16	ACTUAL SAMPLE DEPTH N/A	SAF NO. F12-023	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302841	BILL OF LADING/ATR BILL NO. NA		
SHIPPED TO TestAmerica Incorporated, Richland					

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Water X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION Cool-4C	HOLDING TIME 24 Hours	NO. OF CONTAINER(S) 1	VOLUME 60ml	7196, GR6: COMMON?
SPECIAL HANDLING AND/OR STORAGE NA	SAMPLE ANALYSIS					
SAMPLE NO. B3B314	MATRIX* WATER	SAMPLE DATE JUN 13 2017	SAMPLE TIME 1150			

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June 28, 2017

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CSPRC	RECEIVED BY/STORED IN CHRIS FULTON CSPRC	TRVL-17-134; ** The 100 Area S8GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** The extraction wells associated with this SAF are all located at the Transfer Building.
DATE/TIME JUN 13 2017 1345	DATE/TIME JUN 13 2017 1345	
RELINQUISHED BY/REMOVED FROM Troy Bacon CSPRC	RECEIVED BY/STORED IN J. BOCK, TABLIN	
DATE/TIME JUN 13 2017 1500	DATE/TIME JUN 13 2017 1500	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/8/2017 FSR ID = FSR45063 TRVL NUM = TRVL-17-134 A-6003-618 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F12-023-323	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Effluent Tank, Valve T-M5 (N-MJ030A) FT	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSPHER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16/36	ACTUAL SAMPLE DEPTH N/A	SAF NO. F12-023	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302841	BILL OF LADING/AIR BILL NO. NA		
SHIPPED TO TestAmerica Incorporated, Richland					

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/JA7A Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cooler-4C	
		HOLDING TIME	24 Hours	
		TYPE OF CONTAINER	ag	
		NO. OF CONTAINER(S)	1	
		VOLUME	60mL	
		SAMPLE ANALYSIS	756, CR6; COMMON;	
SPECIAL HANDLING AND/OR STORAGE NA				
SAMPLE NO. B3B311	MATRIX* WATER	SAMPLE DATE JUN 13 2017	SAMPLE TIME 0740	V

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CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM CHRIS FULTON CHPRC	DATE/TIME JUN 13 2017 1345	RECEIVED BY/STORED IN Troy Bacon CHPRC	DATE/TIME JUN 13 2017 1345	TRVL-17-134; ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** The extraction wells associated with this SAF are all located at the Transfer Building.
RELINQUISHED BY/REMOVED FROM Troy Bacon CHPRC	DATE/TIME JUN 13 2017 1500	RECEIVED BY/STORED IN J. Bock, TARBUN	DATE/TIME JUN 13 2017 1500	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FI2-023-327	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Effluent Tank, valve T-M5 (V-MJ030A)	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16	ACTUAL SAMPLE DEPTH N/A	SAF NO. FI2-023	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. NA				COA 302841	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO TestAmerica Incorporated, Richland				BILL OF LADING/AIR BILL NO. NA	ORIGINAL

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool <=6C
A=Air	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	HOLDING TIME	28 Days/48 Hours
DL=Drum		TYPE OF CONTAINER	P
Liquids		NO. OF CONTAINERS(S)	1
DS=Drum		VOLUME	500mL
Solids		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
L=Liquid		SPECIAL HANDLING AND/OR STORAGE	NA
O=Oil			
S=Soil			
SE=Sediment			
T=Tissue			
V=Vegetation			
W=Water			
WT=Water			
X=Other			

SAMPLE NO.	WATER	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B3B315			JUN 13 2017	1150	✓

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5051

June 28, 2017

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-17-134: ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building. (1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 5/8/2017 FSR ID = FSR45063 TRVL NUM = TRVL-17-134 A-6003-618 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F12-023-324	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNDOWN 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Effluent Tank, valve T-M5 (V-M1030A) FT	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16/36	ACTUAL SAMPLE DEPTH N/A	SAF NO. F12-023	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302841	BILL OF LADING/AIR BILL NO. NA	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO Testamerica Incorporated, Richland					

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
83B312	WATER							JUN 13 2017 0740	

WCS1
WCS10Y

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FULTON	RECEIVED BY/STORED IN Troy Bacon CHPRC	TRVL-17-134; ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building. (1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};
RELINQUISHED BY/REMOVED FROM Troy Bacon	RECEIVED BY/STORED IN Troy L. Bacon	
RELINQUISHED BY/REMOVED FROM CHERIC	RECEIVED BY/STORED IN 1. Bock, TARI	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F12-023-320	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION 100-DX, Bldg 1804D, Influent Tank, valve T-M3 (V-ME006A)	PROJECT DESIGNATION 100-DX Pump and Treat - INFLUENT/EFFLUENT/TRANSFER TANKS - WAT	FIELD LOGBOOK NO. HNF-N-491-16	ACTUAL SAMPLE DEPTH N/A	SAF NO. F12-023	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL
ICE CHEST NO. NA	OFFSITE PROPERTY NO. NA	COA 302841	BILL OF LADING/AIR BILL NO. NA		
SHIPPED TO Testamerica Incorporated, Richland					

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WF=Water X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <=6C
		HOLDING TIME	28 Days/48 Hours
		TYPE OF CONTAINER	P
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
SPECIAL HANDLING AND/OR STORAGE NA		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SAMPLE NO. B3B308	MATRIX* WATER	SAMPLE DATE JUN 13 2017	SAMPLE TIME 1205

See 1
weaver

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM CHRIS FULTON CHPRC	DATE/TIME JUN 13 2017 1345	RECEIVED BY/STORED IN Troy Baggett CHPRC	DATE/TIME JUN 13 2017 1345
RELINQUISHED BY/REMOVED FROM Troy Baggett CHPRC	DATE/TIME JUN 13 2017 1500	RECEIVED BY/STORED IN J. Boek, TARL	DATE/TIME JUN 13 2017 1500
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

TRVL-17-134; ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.** The extraction wells associated with this SAF are all located at the Transfer Building.
(1) 300.0 ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0 ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

June 28, 2017

10 of 22 6/28/2017

June 28, 2017 Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: B3B307

Lab Sample ID: 300-5651-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.016		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3B314

Lab Sample ID: 300-5651-2

No Detections.

Client Sample ID: B3B311

Lab Sample ID: 300-5651-3

No Detections.

Client Sample ID: B3B315

Lab Sample ID: 300-5651-4

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	3.9	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
Sulfate	130	D	1.3	0.63	mg/L	5		300.0	Total/NA

Client Sample ID: B3B312

Lab Sample ID: 300-5651-5

No Detections.

Client Sample ID: B3B308

Lab Sample ID: 300-5651-6

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	3.7	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
Sulfate	140	D	1.3	0.63	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: B3B307
Date Collected: 06/13/17 12:05
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.016		0.0040	0.0015	mg/L			06/13/17 17:45	1

Client Sample ID: B3B314
Date Collected: 06/13/17 11:50
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/13/17 17:45	1

Client Sample ID: B3B311
Date Collected: 06/13/17 07:40
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/13/17 17:48	1

Client Sample ID: B3B315
Date Collected: 06/13/17 11:50
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-4
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			06/13/17 20:27	2
Nitrate as N	3.9	D	0.056	0.028	mg/L			06/13/17 20:27	2
Fluoride	0.17	D	0.10	0.050	mg/L			06/13/17 20:27	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/13/17 20:27	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			06/13/17 20:27	2
Sulfate	130	D	1.3	0.63	mg/L			06/13/17 22:58	5

Client Sample ID: B3B312
Date Collected: 06/13/17 07:40
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U D	0.40	0.20	mg/L			06/13/17 20:42	2
Nitrate as N	0.028	U D	0.056	0.028	mg/L			06/13/17 20:42	2
Fluoride	0.050	U D	0.10	0.050	mg/L			06/13/17 20:42	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/13/17 20:42	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			06/13/17 20:42	2
Sulfate	0.25	U D	0.50	0.25	mg/L			06/13/17 20:42	2

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: B3B308
Date Collected: 06/13/17 12:05
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-6
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			06/13/17 20:57	2
Nitrate as N	3.7	D	0.056	0.028	mg/L			06/13/17 20:57	2
Fluoride	0.17	D	0.10	0.050	mg/L			06/13/17 20:57	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/13/17 20:57	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			06/13/17 20:57	2
Sulfate	140	D	1.3	0.63	mg/L			06/13/17 23:28	5



Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-8259/5
Matrix: Water
Analysis Batch: 8259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			06/13/17 18:42	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/13/17 18:42	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			06/13/17 18:42	1

Lab Sample ID: LCS 300-8259/6
Matrix: Water
Analysis Batch: 8259

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	2.26		mg/L		100	80 - 120
Nitrite as N	3.04	3.09		mg/L		101	80 - 120
Orthophosphate as P	6.53	6.54		mg/L		100	80 - 120

Lab Sample ID: 300-5650-A-4 MS
Matrix: Water
Analysis Batch: 8259

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.8	D	0.452	3.19	D	mg/L		94	75 - 125
Nitrite as N	0.038	U D	0.609	0.565	D	mg/L		93	75 - 125
Orthophosphate as P	0.082	U D	1.31	1.18	D	mg/L		90	75 - 125

Lab Sample ID: 300-5650-A-4 DU
Matrix: Water
Analysis Batch: 8259

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.8	D	2.76	D	mg/L		0.1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20
Orthophosphate as P	0.082	U D	0.082	U D	mg/L		NC	20

Lab Sample ID: MB 300-8260/5
Matrix: Water
Analysis Batch: 8260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			06/13/17 18:42	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/13/17 18:42	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/13/17 18:42	1

Lab Sample ID: LCS 300-8260/6
Matrix: Water
Analysis Batch: 8260

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	3.89		mg/L		97	80 - 120
Sulfate	20.0	20.3		mg/L		101	80 - 120

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-5650-A-4 MS
Matrix: Water
Analysis Batch: 8260

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	7.7	D	8.00	15.7	D	mg/L		100	75 - 125	
Fluoride	0.32	D	2.00	2.07	D	mg/L		87	75 - 125	
Sulfate	54	D	10.0	63.2	D	mg/L		92	75 - 125	

Lab Sample ID: 300-5650-A-4 DU
Matrix: Water
Analysis Batch: 8260

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	7.7	D	7.60	D	mg/L		2	20	
Fluoride	0.32	D	0.319	D	mg/L		1	20	
Sulfate	54	D	53.1	D	mg/L		2	20	

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-8280/3
Matrix: Water
Analysis Batch: 8280

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			06/13/17 17:35	1

Lab Sample ID: LCS 300-8280/4
Matrix: Water
Analysis Batch: 8280

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: 300-5647-A-1 MS
Matrix: Water
Analysis Batch: 8280

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Cr (VI)	0.0023	B	0.0501	0.0536		mg/L		102	75 - 125	

Lab Sample ID: 300-5647-A-1 DU
Matrix: Water
Analysis Batch: 8280

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Cr (VI)	0.0023	B	0.00220	B	mg/L		4	20	

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

HPLC/IC

Analysis Batch: 8259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5651-4	B3B315	Total/NA	Water	300.0	
300-5651-5	B3B312	Total/NA	Water	300.0	
300-5651-6	B3B308	Total/NA	Water	300.0	
MB 300-8259/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8259/6	Lab Control Sample	Total/NA	Water	300.0	
300-5650-A-4 MS	Matrix Spike	Total/NA	Water	300.0	
300-5650-A-4 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 8260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5651-4	B3B315	Total/NA	Water	300.0	
300-5651-4	B3B315	Total/NA	Water	300.0	
300-5651-5	B3B312	Total/NA	Water	300.0	
300-5651-6	B3B308	Total/NA	Water	300.0	
300-5651-6	B3B308	Total/NA	Water	300.0	
MB 300-8260/5	Method Blank	Total/NA	Water	300.0	
LCS 300-8260/6	Lab Control Sample	Total/NA	Water	300.0	
300-5650-A-4 MS	Matrix Spike	Total/NA	Water	300.0	
300-5650-A-4 DU	Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 8280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-5651-1	B3B307	Total/NA	Water	7196A	
300-5651-2	B3B314	Total/NA	Water	7196A	
300-5651-3	B3B311	Total/NA	Water	7196A	
MB 300-8280/3	Method Blank	Total/NA	Water	7196A	
LCS 300-8280/4	Lab Control Sample	Total/NA	Water	7196A	
300-5647-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-5647-A-1 DU	Duplicate	Total/NA	Water	7196A	

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: B3B307
Date Collected: 06/13/17 12:05
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-1
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			8280	06/13/17 17:45	HR	TAL RCH

Client Sample ID: B3B314
Date Collected: 06/13/17 11:50
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-2
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			8280	06/13/17 17:45	HR	TAL RCH

Client Sample ID: B3B311
Date Collected: 06/13/17 07:40
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-3
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			8280	06/13/17 17:48	HR	TAL RCH

Client Sample ID: B3B315
Date Collected: 06/13/17 11:50
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-4
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	300.0		2			8259	06/13/17 20:27	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8260	06/13/17 20:27	ALR	TAL RCH
Total/NA	Analysis	300.0		5			8260	06/13/17 22:58	ALR	TAL RCH

Client Sample ID: B3B312
Date Collected: 06/13/17 07:40
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-5
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	300.0		2			8259	06/13/17 20:42	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8260	06/13/17 20:42	ALR	TAL RCH

Client Sample ID: B3B308
Date Collected: 06/13/17 12:05
Date Received: 06/13/17 15:00

Lab Sample ID: 300-5651-6
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			8259	06/13/17 20:57	ALR	TAL RCH
Total/NA	Analysis	300.0		2			8260	06/13/17 20:57	ALR	TAL RCH
Total/NA	Analysis	300.0		5			8260	06/13/17 23:28	ALR	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: Method Blank

Lab Sample ID: MB 300-8259/5

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			8259	06/13/17 18:42	ALR	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-8260/5

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			8260	06/13/17 18:42	ALR	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-8280/3

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			8280	06/13/17 17:35	HR	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8259/6

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			8259	06/13/17 18:57	ALR	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8260/6

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			8260	06/13/17 18:57	ALR	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-8280/4

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			8280	06/13/17 17:35	HR	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Client Sample ID: Matrix Spike

Lab Sample ID: 300-5647-A-1 MS

Date Collected: 06/13/17 10:30

Matrix: Water

Date Received: 06/13/17 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			8280	06/13/17 17:36	HR	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-5650-A-4 MS

Date Collected: 06/13/17 12:47

Matrix: Water

Date Received: 06/13/17 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			8259	06/13/17 19:27	ALR	TAL RCH
Total/NA	Analysis	300.0		5			8260	06/13/17 21:58	ALR	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: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

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



June 28, 2017 Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F12-023

TestAmerica Job ID: 300-5651-1
SDG: WC2108

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-5651-1	B3B307	Water	06/13/17 12:05	06/13/17 15:00
300-5651-2	B3B314	Water	06/13/17 11:50	06/13/17 15:00
300-5651-3	B3B311	Water	06/13/17 07:40	06/13/17 15:00
300-5651-4	B3B315	Water	06/13/17 11:50	06/13/17 15:00
300-5651-5	B3B312	Water	06/13/17 07:40	06/13/17 15:00
300-5651-6	B3B308	Water	06/13/17 12:05	06/13/17 15:00

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-5651-1

SDG Number: WC2108

Login Number: 5651

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	

