

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: 300-3620-1
TestAmerica Sample Delivery Group: WC1321
Client Project/Site: X16-050

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

Attn: CPP Sample Management



Authorized for release by:
8/4/2016 3:39:43 PM
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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. The sample/ sample duplicate RPD agreement is not applicable if one or both results are less than five times the MDL.



LINKS

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Job ID: 300-3620-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3620-1

Comments

No additional comments.

Receipt

The samples were received on 7/29/2016 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.6° C.

General Chemistry

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

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-050-007
Page 1 of 1

Collector: CHRIS FULTON CHPRC		Contact/Requester: WATERS-HUSTED, K	Telephone No.: 376-4650
SAF No.: X16-050		Sampling Origin: Hanford Site	Purchase Order/Charge Code: 304027
Project Title: 100-K/W Rebound Study, Vertical Profile		Logbook No.: HNF-N-506 § 7/18/12	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Richland		Method of Shipment: GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.: N/A
Protocol: CERCLA		Priority: 30 Days	Offsite Property No.: N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS	
*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CER/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		N/A	

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B367D1	Y	W	7/28/16	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B367D2	N	W	7/28/16	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

8/4/2016

300-3620 COC



#3620
NFC1321

Relinquished By: CHRIS FULTON CHPRC		Print 	Sign	Date/Time: JUL 29 2016 1145	Received By: Troy Bacon CHPRC	Print 	Sign	Date/Time: JUL 29 2016 1145
Relinquished By: Troy Bacon CHPRC				Date/Time: JUL 29 2016 1515	Received By: L Anderson, TARI			Date/Time: JUL 29 2016 1515
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: _____

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-050-008

Page 1 of 1

Collector	CHRIS FULTON CHPRC	Contact/Requester	WATERS-HUSTED, K	Telephone No.	376-4650		
SAF No.	X16-050	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027		
Project Title	100-KW Rebound Study, Vertical Profile	Logbook No.	HNF-N-506 <u>871 / 12</u>	Ice Chest No.	N/A		
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A		
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS		Hold Time			
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		N/A		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
B367D5	N	W	7/29/16	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B367D4	Y	W	1	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3620
WC1321

8/4/2016

Relinquished By		Print	CHRIS FULTON	Sign		Date/Time	JUL 29 2016 1145	Received By		Print	Troy Bacon	Sign		Date/Time	JUL 29 2016 1145	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WL = Wipe L = Liquid V = Vegetation X = Other
Relinquished By		Print	Troy Bacon	Sign		Date/Time	JUL 29 2016 1515	Received By		Print	L. Anderson, TARI	Sign		Date/Time	JUL 29 2016 1515			
Relinquished By		Date/Time		Received By		Date/Time							Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)																

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-050-009
Page 1 of 1

Collector	CHRIS FULTON CHPRC	Contact/Requester	WATERS-HUSTED, K	Telephone No.	376-4650
SAF No.	X16-050	Sampling Origin	Hanford Site	Purchase Order/Charge Code	304027
Project Title	100-KW Rebound Study, Vertical Profile	Logbook No.	HNF-N-506 <u>87/12</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY		
*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			SPECIAL INSTRUCTIONS N/A		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time N/A		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B367D7	Y	W	7/29/16	1641	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B367D8	N	W	1	1	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

#3620
WCE1321

8/4/2016

Reinquished By	CHRIS FULTON	Print	Signature	Date/Time	Received By	Troy Bacon CHPRC	Print	Signature	Date/Time	Matrix *
Reinquished By	Troy Bacon CHPRC	Signature	Signature	JUL 23 2016 1145	Received By	Troy Bacon CHPRC	Signature	Signature	JUL 29 2016 1145	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By		Date/Time	Date/Time	JUL 29 2016 1515	Received By	L. Anderson, TARI	Signature	Signature	JUL 29 2016 1515	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Reinquished By		Date/Time	Date/Time		Received By		Date/Time	Date/Time		
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: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Client Sample ID: B367D1

Lab Sample ID: 300-3620-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.019		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B367D2

Lab Sample ID: 300-3620-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.019		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B367D5

Lab Sample ID: 300-3620-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.014		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B367D4

Lab Sample ID: 300-3620-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.014		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B367D7

Lab Sample ID: 300-3620-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B367D8

Lab Sample ID: 300-3620-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Client Sample ID: B367D1

Date Collected: 07/29/16 10:18

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.019		0.0040	0.0015	mg/L			07/29/16 17:11	1

Client Sample ID: B367D2

Date Collected: 07/29/16 10:18

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-2

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.019		0.0040	0.0015	mg/L			07/29/16 17:12	1

Client Sample ID: B367D5

Date Collected: 07/29/16 11:04

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-3

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.014		0.0040	0.0015	mg/L			07/29/16 17:12	1

Client Sample ID: B367D4

Date Collected: 07/29/16 11:04

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-4

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.014		0.0040	0.0015	mg/L			07/29/16 17:12	1

Client Sample ID: B367D7

Date Collected: 07/29/16 11:41

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-5

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			07/29/16 17:13	1

Client Sample ID: B367D8

Date Collected: 07/29/16 11:41

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-6

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			07/29/16 17:15	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
 SDG: WC1321

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-5106/3
 Matrix: Water
 Analysis Batch: 5106

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			07/29/16 17:02	1

Lab Sample ID: LCS 300-5106/4
 Matrix: Water
 Analysis Batch: 5106

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	0.253		mg/L		101	80 - 120

Lab Sample ID: 300-3618-A-1 MS
 Matrix: Water
 Analysis Batch: 5106

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
Cr (VI)	0.024		0.0500	0.0690		mg/L		90	75 - 125

Lab Sample ID: 300-3618-A-1 DU
 Matrix: Water
 Analysis Batch: 5106

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.024		0.0243		mg/L		0.8	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
 SDG: WC1321

General Chemistry

Analysis Batch: 5106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3620-1	B367D1	Total/NA	Water	7196A	
300-3620-2	B367D2	Total/NA	Water	7196A	
300-3620-3	B367D5	Total/NA	Water	7196A	
300-3620-4	B367D4	Total/NA	Water	7196A	
300-3620-5	B367D7	Total/NA	Water	7196A	
300-3620-6	B367D8	Total/NA	Water	7196A	
MB 300-5106/3	Method Blank	Total/NA	Water	7196A	
LCS 300-5106/4	Lab Control Sample	Total/NA	Water	7196A	
300-3618-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-3618-A-1 DU	Duplicate	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Client Sample ID: B367D1

Date Collected: 07/29/16 10:18

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-1

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			5106	07/29/16 17:11	RLC	TAL RCH

Client Sample ID: B367D2

Date Collected: 07/29/16 10:18

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-2

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			5106	07/29/16 17:12	RLC	TAL RCH

Client Sample ID: B367D5

Date Collected: 07/29/16 11:04

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-3

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			5106	07/29/16 17:12	RLC	TAL RCH

Client Sample ID: B367D4

Date Collected: 07/29/16 11:04

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-4

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			5106	07/29/16 17:12	RLC	TAL RCH

Client Sample ID: B367D7

Date Collected: 07/29/16 11:41

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-5

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			5106	07/29/16 17:13	RLC	TAL RCH

Client Sample ID: B367D8

Date Collected: 07/29/16 11:41

Date Received: 07/29/16 15:15

Lab Sample ID: 300-3620-6

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			5106	07/29/16 17:15	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
 SDG: WC1321

Client Sample ID: Method Blank

Lab Sample ID: MB 300-5106/3

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			5106	07/29/16 17:02	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5106/4

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			5106	07/29/16 17:03	RLC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3618-A-1 MS

Date Collected: 07/29/16 13:53

Matrix: Water

Date Received: 07/29/16 15:15

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			5106	07/29/16 17:03	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: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

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



Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: X16-050

TestAmerica Job ID: 300-3620-1
SDG: WC1321

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3620-1	B367D1	Water	07/29/16 10:18	07/29/16 15:15
300-3620-2	B367D2	Water	07/29/16 10:18	07/29/16 15:15
300-3620-3	B367D5	Water	07/29/16 11:04	07/29/16 15:15
300-3620-4	B367D4	Water	07/29/16 11:04	07/29/16 15:15
300-3620-5	B367D7	Water	07/29/16 11:41	07/29/16 15:15
300-3620-6	B367D8	Water	07/29/16 11:41	07/29/16 15:15

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3620-1

SDG Number: WC1321

Login Number: 3620

List Number: 1

Creator: Anderson, Lori F

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 $<6\text{mm}$ (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	