ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813

Generated 5/4/2023 9:34:40 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126564-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

M. Elaine Walker

Generated 5/4/2023 9:34:40 AM

Authorized for release by Marie Walker, Senior Project Manager M.Elaine.Walker@et.eurofinsus.com (253)248-4972

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-126564-1

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Case Narrative

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126564-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126564-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Three samples were received on 4/27/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW225401-WGN01B-2304W4 (580-126564-1), AF-HDMW225303-WGN01LF-2304W4 (580-126564-2) and AF-RHMW10-WGN01LF-2304W4 (580-126564-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/01/2023.

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

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Definitions/Glossary

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

Undetected at the Limit of Detection.

Glossary

Appreviation	These commonly used appreviations 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 CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) DER

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)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RLReporting 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)

Too Numerous To Count **TNTC**

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Client Sample Results

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W4 Lab Sample ID: 580-126564-1

Date Collected: 04/26/23 08:50 Matrix: Water

Date Received: 04/27/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0 11	5.0	1.1 mg/l			05/01/23 21:34		

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Client Sample Results

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2304W4 Lab Sample ID: 580-126564-2

Date Collected: 04/25/23 09:50 Matrix: Water

Date Received: 04/27/23 10:30

Method: SW846 8015C GLY -	Glycols- Direct Injection	(GC/FID)				
Analyto	Result Qualifier	100	DI Unit	D	Propared	

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Client Sample Results

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2304W4 Lab Sample ID: 580-126564-3

Date Collected: 04/25/23 12:15 Matrix: Water

Date Received: 04/27/23 10:30

Analyte	Result	Qualifier	LOQ	DL Uni	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1 1 mg/			05/01/23 23:07	1	

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QC Sample Results

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-776218/9 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 776218

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte D Prepared 5.0 1.1 mg/L 05/01/23 14:59 2-(2-Butoxyethoxy)ethanol 3.0 U

Lab Sample ID: LCS 680-776218/5

Matrix: Water

Analysis Batch: 776218

Spike LCS LCS Added Result Qualifier D %Rec Unit 20.0 18.0 2-(2-Butoxyethoxy)ethanol mg/L

Lab Sample ID: LCSD 680-776218/6

Matrix: Water

Analysis Batch: 776218

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 17.6 88 50 - 150 mg/L

Lab Sample ID: 580-126564-2 MS

Matrix: Water

Analysis Batch: 776218

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U 20.0 18.1 mg/L 90 50 - 150

Lab Sample ID: 580-126564-2 MSD

Matrix: Water

Analysis Batch: 776218

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Limits RPD Result Qualifier Unit %Rec Limit 50 - 150 2-(2-Butoxyethoxy)ethanol 3.0 U 20.0 20.8 104 mg/L 14 50

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5/4/2023

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec

Limits

50 - 150

90

Client Sample ID: AF-HDMW225303-WGN01LF-2304W4

Client Sample ID: AF-HDMW225303-WGN01LF-2304W4

Client Sample ID: Lab Control Sample Dup

Lab Chronicle

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W4

Lab Sample ID: 580-126564-1

Date Collected: 04/26/23 08:50 Date Received: 04/27/23 10:30

Matrix: Water

Batch Dilution Batch Batch

Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 05/01/23 21:34 Total/NA Analysis 8015C GLY 776218 GEM EET SAV

Client Sample ID: AF-HDMW225303-WGN01LF-2304W4 Lab Sample ID: 580-126564-2

Date Collected: 04/25/23 09:50 **Matrix: Water**

Date Received: 04/27/23 10:30

Batch **Batch Dilution** Batch Prepared **Prep Type** Type Method Run **Factor** Number Analyst Lab or Analyzed Total/NA Analysis 8015C GLY 776218 GEM EET SAV 05/01/23 21:57

Client Sample ID: AF-RHMW10-WGN01LF-2304W4 Lab Sample ID: 580-126564-3

Date Collected: 04/25/23 12:15 **Matrix: Water**

Date Received: 04/27/23 10:30

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type **Factor Number Analyst** Run Lab 05/01/23 23:07 Total/NA Analysis 8015C GLY 776218 GEM **EET SAV**

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority ANAB		rogram ept. of Defense ELAP	L2463	Expiration Date 09-22-24
The following analyte the agency does not	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol	

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Sample Summary

Client: AECOM Job ID: 580-126564-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126564-1	AF-RHMW225401-WGN01B-2304W4	Water	04/26/23 08:50	04/27/23 10:30
580-126564-2	AF-HDMW225303-WGN01LF-2304W4	Water	04/25/23 09:50	04/27/23 10:30
580-126564-3	AF-RHMW10-WGN01LF-2304W4	Water	04/25/23 12:15	04/27/23 10:30

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Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424		Chain	of Cu	stody	Rec	ord						0	16-	- 8	74	79	16-	& eurofir 74	1S Environment America	Testing
Client Information	Sampler: MARC	MURA	OKA		ab PM: Isine W	aiker		·		<u>م</u>	را	amer ed⊑)	Trackin	LY	(s): Ah	<u>ー</u>		COC No: 2304W4AFE	107	
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Company: AECOM			PWSID:		T				naly		Real	este	ed					Job #:		
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip:	Due Date Reques see subcontrac TAT Requested (c	ct days):	5 Day													7		Preservation C A - HCl. B - NaOH C - Zn Acetate D - Nitric Acid	M - Hexane N - None O - AsNaO2 P - Na2O4S	
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Eurofins FGS, Seattle 5755 8th Street East

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5755 Blh Street East Tacoma, WA 98424

Chain of Custody Record

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Environment Testing America

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Chain of Custody Record

Eurofins FGS, Seattle																		" numatina	•
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1001 Bishop St. Suite 1600	Due Date Reques										Ī					11		Preservation Cod A - HCL	tes; M - Hexans
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Watson Tenji (watson.tanji € aecom.com)/ Mark Kromis (mark.kromis € aecom.com)	WO #:				\$ Oct	2	oxyet					V					2	i - Ice J - Di Watar	U - Acetons V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				ple (Yes or No)		2.0 cc						$\sqrt{}$				造	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:				Ť	The section of the se	.DS/ 2-{2-butoxyethoxy}-ethanol						1	\mathbf{L}				Other:	
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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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Environment Testing America

Tacoma, WA 98424		ymann (J. J .	rouy .		.						\mathcal{C}	16-	87	47	96	74		Am	erica	
Client Information Client Contact.	Samplar MARC	MURA	OKA	Lab I Elai	PM: ne W	alker					ga.	Carrier FedE	Trackin X Unr	g No(s)	AWB		2304V	o: V4AFEA	07		
Client Contact.	Phone.	4369	8	E-Ma <u>M.E</u>		Walke	er@Eu	rofin	sET.c	<u>om</u>		State of Hawa	of Origin aii				Page [.] Page	1 of 1			
Company AECOM			PWSID [.]						Ana	alysi	is Re	quest	ed				Job #				
Address. 1001 Bishop St Suite 1600	Due Date Request															7	Presei A HC	vation C		lexane	
City Honolulu State Zip Hawaii 96813 Phone	TAT Requested (de Compliance Project	Rush - 5				-ethanol			0/	Λ,							B Nat C Zn D Nitr E Nat F Met	OH Acetate ic Acid HSO4 OH	N N O A P N Q N R N	lone IsNaO2 Ia2O4S Ia2SO3 Ia2S2O3	
Email	WO#				- P	thoxy)			A'	y V	i		1				G Am H Aso I Ice	chlor orbic Acid	TT	I2SO4 SP Dodecahy cetone	rdrate
Walson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name	Project #				Yes or	or NO utoxye		4	1)	\mathcal{A}	43	$ \cdot $	-			iners	J DIV	TA	W	ICAA oH 4-5	
CTO N6274223F0104 Site	60697810 SSOW#				- 월	7-(2-p			1	Ĭ,	X					conta	L ED	Ą	Z 01	ther (specify)	
RHSF		T			- San	IL D5/				X						75					
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Ar) ation Code	Field Filtere	refrorm MaxMaD (Tes of No) 8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol			4							Total Number		Special	Instruc	tions/Note):
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Possible Hazard Identification ■ Non-Hazard □ Flammable □ Skin Irritant □ Poison B	3 Un known	Radi	ological		1	\Box_{\prime}	Return	To C	Client			Dispos	al By L	ab		Arc	hive Fo	yer mar r		nn) Ionths	
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Custody Seals Intact Custody Seal No Δ Yes Δ No						Coo	ler Tem	peratu	ur é (S) °	C and	Other F	temarks			/.	2/	1-8				
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Environment Testing America

racoma, WA 96424				-									010	, ~	874	179	167	74	America	
Client Information	Sampler KII	4 MG		Lab P Elair	м: ne Wa	lker					gr	Carri Fed	er Tracl	king No	(s).	15		COC No: 2304W4AFEA04	4	
Client Contact.	Phone ⁻			E-Mai	l:		er@Eu	rofins	ET c	<u>om</u>		State	of Orig	ıln				Page Page 1 of 1		
Company AECOM	·		PWSID						Ana	alysi	s Re	ques	ted					Job#		
Address. 1001 Bishop St Suite 1600 City Honolulu State Zip	Due Date Request see subcontract TAT Requested (da	t ays) [.] Rush - 5				lon												Preservation Coo A HCL B NaOH C Zn Acetate D Nitric Acid	M Hexane N None O AsNaO2 P Na2O4S	
Hawaii 96813 Phone 808-954-4512 / 770-331-0794 Email	Compliance Project PO #	ct ∆ Yes	Δ No		(No)	thoxy)-etha					\downarrow			ŀ				E NaHSO4 F MeOH G Amchlor H Ascorbic Acid	Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahyo U Acetone	rdrate
Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name CTO N6274223F0104 Site	Project # 60697810 ssow#				Sample (Yes or N SD (Yes or No)	D5/ 2-(2-butoxyethoxy)-ethanol								\uparrow	\Rightarrow	>	containers	J DI Water K EDTA L EDA	V MCAA W pH 4-5 Z other (specify))
RHSF		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oil,	Field Filtered Sample (Yes or Perform MS/MSD (Yes or No)	8015C_DALGL_DS											Total Number of			
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Air)		E A	\dashv		+		+	/	\dashv	_			Ē	Special In	structions/Note	-
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B	Unknown	radio	ological			\Box_{F}	Return	To Ci	lient			Dispo	sal By	Lab		\Box ,	taine Arch	ed longer than i	month) Months	
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Custody Seals Intact Custody Seal No							ler Tem		e(s) °C	and (Other F	Remarks).		٧			1.2/1.8	<u> </u>	
Δ Yes Δ No				<u> </u>		<u> </u>		//								····	_/	·41.p	Ver 01/16/2019	

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Environment Testing Am rica

016-87479674 Carrier Tracking No(s)
FedEx Unit AUN mm NH MG 2304W4AFEA03 Client Information Elaine Walker Client Contact. E Mail State of Origin: M.Elaine Walker@EurofinsET.com Hawaii Page 1 of 1 PWSID Job # AECOM Analysis Requested Address Due Date Requested Preservation Codes 1001 Bishop St Suite 1600 see subcontract A HCL M Hexane TAT Requested (days) B NaOH N None Honolulu Rush - 5 Day C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S State Zip. Compliance Project. Δ Yes Δ No E NaHSO4 Q Na2SO3 Hawaii 96813 F MeOH R Na2S2O3 S H2SO4 G Amchlor 808-954-4512 / 770-331-0794 H Ascorbic Acid T TSP Dodecahydrate WO# 1 Ice U Acetone Total Number of containers
Office Off Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) J DI Water V MCAA K EDTA W pH 4-5 Project Name Project # L EDA Z other (specify) CTO N6274223F0104 60697810 RHSF Sample Matrix Type (W=water S≈solid, Sample (C=comp, O=waste/oil, BT≃Tissue, A=Al Special Instructions/Note: Sample Identification Sample Date Time G=grab) Preservation Code 1-25-23 AF-RHMW10-WGN01LF-2304W4 Ν Х 3 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Disposal By Lab Archive For Onknown Hadiological Return To Client Months Deliverable Requested I, II, III, IV, Other (specify) Prelim data (Level 10r2)=see TAT above DoD Stage | Special Instructions/QC Requirements | DOD QSM project 4 report standard TAT, AECOM EQuIS EDD. Empty Kit Relinquished by Time: Company received by 4-25-23 Hannah Broms AEROM 4/251 1345 AECOM Date/Time Company Received by 1420 Hannel AUCONI Received by: Company Custody Seals Intact Custody Seal No Cooler Temperature(s) C and Other Remarks. Δ Yes Δ No Ver: 01/16/2019

Client: AECOM Job Number: 580-126564-1

Login Number: 126564 **List Source: Eurofins Savannah** List Number: 2 List Creation: 04/28/23 12:15 PM

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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.	N/A	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	