

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 5/15/2023 3:30:16 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126957-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424





Eurofins Seattle

Job Notes

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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

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

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Job ID: 580-126957-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Case Narrative

Client: AECOM Project: Red Hill - AFFF Assessment Sampling Report Number: 580-126957-1

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.

<u>RECEIPT</u>

Six samples were received on 5/6/2023 10:00 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 3.8° 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.

<u>GLYCOLS</u>

Samples AF-RHMW17S-WGN01LF-2305W1 (580-126957-1), AF-RHMW17S-WQEB01-2305W1 (580-126957-2), AF-RHMW17-WGN01LF-2305W1 (580-126957-3), AF-RHMW17D-WGN01LF-2305W1 (580-126957-4), AF-RHMW17D-WQFB01-2305W1 (580-126957-5) and AF-RHMW225401-WGN01B-2305W1 (580-126957-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/11/2023.

The continuing calibration verification (CCV) associated with batch 680-778288 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AF-RHMW17S-WGN01LF-2305W1 (580-126957-1), AF-RHMW17S-WQEB01-2305W1 (580-126957-2), AF-RHMW17-WGN01LF-2305W1 (580-126957-3), AF-RHMW17D-WGN01LF-2305W1 (580-126957-4), AF-RHMW17D-WQFB01-2305W1 (580-126957-5) and AF-RHMW225401-WGN01B-2305W1 (580-126957-6).

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

Definitions/Glossary

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126957-1

Qualifiers

GC Semi VOA

GC Semi vu		
Qualifier	Qualifier Description	4
J	Estimated: The analyte was positively identified; the quantitation is an estimation	
Μ	Manual integrated compound.	5
Q	One or more quality control criteria failed.	
U	Undetected at the Limit of Detection.	
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	0
%R	Percent Recovery	0
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	9
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
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
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)
TNTC	Too Numerous To Count

Job ID: 580-126957-1

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Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2305W1 Lab Sample ID: 580-126957-1 Date Collected: 05/03/23 09:35 Matrix: Water Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Analyte Result Qualifier LOQ DL Unit D Prepared Analyzed Dil Fac 05/11/23 19:04 2-(2-Butoxyethoxy)ethanol 1.7 JQ 5.0 1.1 mg/L 1

Job ID: 580-126957-1

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Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WQEB01-2305W1 Lab Sample ID: 580-126957-2 Date Collected: 05/03/23 10:10 Matrix: Water Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 05/11/23 19:28 2-(2-Butoxyethoxy)ethanol 3.1 JMQ 5.0 1.1 mg/L 1

Job ID: 580-126957-1

Matrix: Water

Dil Fac

1

5

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2305W1 Lab Sample ID: 580-126957-3 Date Collected: 05/03/23 12:50 Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed 3.0 UQ 05/11/23 19:51 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L

Job ID: 580-126957-1

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Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2305W1 Lab Sample ID: 580-126957-4 Date Collected: 05/03/23 10:50 Matrix: Water Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 UQ 05/11/23 20:14 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 1

Job ID: 580-126957-1

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1

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2305W1 Lab Sample ID: 580-126957-5 Date Collected: 05/03/23 10:25 Matrix: Water Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 UMQ 05/11/23 20:38 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L

Job ID: 580-126957-1

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Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2305W1 Lab Sample ID: 580-126957-6 Date Collected: 05/04/23 11:00 Matrix: Water Date Received: 05/06/23 10:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 UMQ 05/11/23 21:01 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 1

QC Sample Results

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126957-1

5 6 7

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

Lab Sample ID: MB 680-778	3288/9								(Clie	nt Sam	ple ID: M		
Matrix: Water												Prep Ty	pe: Tot	al/NA
Analysis Batch: 778288														
A secolar de		MB MB	e						_	_		A		
Analyte	Res	sult Quali	tier	LOQ					<u>D</u> .	Ч	repared	Analy		Dil Fac
2-(2-Butoxyethoxy)ethanol		3.0 U		5.0		1.1 m	ng/L					05/11/23	18:18	
Lab Sample ID: LCS 680-77	/8288/5							Cli	ient	Sar	nple ID:	: Lab Cor	ntrol Sa	ample
Matrix: Water												Prep Ty	pe: Tot	al/N/
Analysis Batch: 778288													-	
-			Spike	•	LCS	LCS						%Rec		
Analyte			Addeo	ł	Result	Qualif	ier	Unit		D	%Rec	Limits		
2-(2-Butoxyethoxy)ethanol			20.0)	21.8			mg/L		_	109	50 - 150		
Lab Sample ID: LCSD 680-	7700000						~	liont	2000			Control	Somel	. D
Matrix: Water	110200/0						C	ment a	Sam	Jie	ID. Lau			
Analysis Batch: 778288												Prep Ty	pe. Io	.dl/11/
Analysis Batch. 110200			Spike)	LCSD	LCSD						%Rec		RPI
Analyte			Addeo		Result		ier	Unit		D	%Rec	Limits	RPD	Limi
2-(2-Butoxyethoxy)ethanol			20.0	0	18.2			mg/L		_	91	50 - 150	18	50
Lab Sample ID: 580-126957	′-1 MS				C	lient	San	nple IC): AF	-R	HMW17	S-WGN0	1LF-23	05W [,]
Matrix: Water												Prep Ty		
Analysis Batch: 778288														
	Sample	Sample	Spike)	MS	MS						%Rec		
Analyte	Result	Qualifier	Addeo	1	Result	Qualif	ier	Unit		D	%Rec	Limits		
0 (0 Dutevouethevou) ethernel	1.7	JQ	20.0)	27.9			mg/L		_	131	50 - 150		
∠-(∠-buloxyetnoxy)etnanol							Son	anlo II	א יר	: р			11 = 22	05\
					<u> </u>	liont (
Lab Sample ID: 580-126957	'-1 MSD				C	lient	Sali			-1.1				
Lab Sample ID: 580-126957 Matrix: Water	'-1 MSD				C	lient	San			-1.1		Prep Ty		
		Sample	Spike	•	C MSD		San			-1.1				al/NA
	Sample	Sample Qualifier	Spike			MSD		Unit		D	%Rec	Prep Ty		

			-						
Client: AECON Project/Site: R		- Assessment S	ampling					Job I	D: 580-126957-1
				000514/4			Lab	O a marke ID.	<u> </u>
		RHMW17S-V	VGNU1LF	-2305001			Lab	Sample ID:	580-126957-1
Date Collecte									Matrix: Wate
Date Received	d: 05/06/23 1	0:00							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 19:04	
Client Sam	ole ID: AF-	RHMW17S-V	VQEB01-	2305W1			Lab	Sample ID:	580-126957-2
Date Collecte									Matrix: Water
Date Received									
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	778288		EET SAV	05/11/23 19:28	
Client Sam	ole ID: AF-	RHMW17-W	GN011 F-	2305W1			l ah	Sample ID:	580-126957-3
Date Collecte							Lub	oumpie ib.	Matrix: Water
Date Received									
		0.00							
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 19:51	
Client Sam	ole ID: AF-	RHMW17D-V	VGN01LF	-2305W1			Lab	Sample ID:	580-126957-4
Date Collecte	d: 05/03/23 1	0:50						-	Matrix: Water
Date Received	d: 05/06/23 1	0:00							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 20:14	
Client Sam	ole ID: AF-	RHMW17D-V	VQFB01-	2305W1			Lab	Sample ID:	580-126957-5
Date Collecte									Matrix: Water
Date Received	d: 05/06/23 1	0:00							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	778288		EET SAV	05/11/23 20:38	
- Client Semi				1D 2205V	V/4		Lab	Sample ID:	590 426057 G
Date Collecte		RHMW22540		10-23030	V I		Lau	Sample ID.	580-126957-6
Date Collecte									Matrix: Water
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Dren Trees	Batch	Batch	D	Dilution	Batch	Amalizat	Lah	Prepared	
	Type	Method	Run	_ Factor _		Analyst		or Analyzed 05/11/23 21:01	
Total/NA	Analysis	8015C GLY		1	778288	GEIM	EET SAV	05/11/23 21:01	

Lab Chronicle

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

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Laboratory: Eurofins Savannah

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

Authority ANAB	Program Dept. of Defense ELAP	L2463	Expiration Date 09-22-24
The following analytes are inclu the agency does not offer certif	ided in this report, but the laboratory is not ce ication.	rtified by the governing authority.	This list may include analytes for which

 Analysis Method
 Prep Method
 Matrix
 Analyte

 8015C GLY
 Water
 2-(2-Butoxyethoxy)ethanol

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126957-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126957-1	AF-RHMW17S-WGN01LF-2305W1	Water	05/03/23 09:35	05/06/23 10:00
580-126957-2	AF-RHMW17S-WQEB01-2305W1	Water	05/03/23 10:10	05/06/23 10:00
580-126957-3	AF-RHMW17-WGN01LF-2305W1	Water	05/03/23 12:50	05/06/23 10:00
580-126957-4	AF-RHMW17D-WGN01LF-2305W1	Water	05/03/23 10:50	05/06/23 10:00
580-126957-5	AF-RHMW17D-WQFB01-2305W1	Water	05/03/23 10:25	05/06/23 10:00
580-126957-6	AF-RHMW225401-WGN01B-2305W1	Water	05/04/23 11:00	05/06/23 10:00

Eurofins FGS, Seattle 5755 8th Street East

Tacoma, WA 98424

Chain of Custody Record

Seurofins Environment Testing America

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	Sampler:	b • • • *		PM: ine W	olizor						Carrie FedE		ang No	x(s):			COC No: 2305W1AFE	10		
Client Information	Avie	<u>Aipi</u>	77	E18		aikei						State	·	io-				Page:	112	
Cient Contact	Phone:	1 - 799	-995	M.E	Elaine.	Walk	er@Ei	urofin	sET.ci	<u>m</u>		Hawa						Page 1 of 1		
Company: AECOM		<u>د المسامع ا</u>	PWSID:		Ι				Ana	lvsis	Rec	uest	ed					Job #:		
Address:	Due Date Request	ted:	I					Т		Ţ	T		1			T	1113	Preservation (odes:	
1001 Bishop St. Suite 1600	see subcontrac							NI										A - HCL	M - Hexane	
City:	TAT Requested (d							N								· ·	14	B - NaOH	N - None	
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State. Zip: Hawaii 96813	Compliance Proje	ct A Yes	∆No			ethan											4 B 2 S	E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
Phone: 808-954-4512 / 770-331-0794	PO #:				- ĝ	2-(2-butoxyethoxy)-ethanol				N	$\mathbb{P}_{\mathbf{a}}$							G - Amchior H - Ascorbic Aci		drate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				Yes of	oxyet					K						Ę	I - ice J - DI Water K - EDTA	U - Acstone V - MCAA W - pH 4-5	
Project Name: CTO N6274223F0104	Project #: 60697810					-(2-bu						Ń,	d				ntainer	L - EDA	Z - other (specify)	
Site: RHSF	SSOW#:				Sample	D5/2							Ŷ				of con	Other:		_
		Sample	Sample Type (C=comp,	Matrix (W-water, S-molid, O-wasteroit,	Field Filtered	8015C_DALGL				*****					\downarrow		Total Number of	Special	Instructions/Note	
Sample Identification	Sample Date	Time		BToTissue, AnAle	朱尺		+	-+			+				+	a	ð	Special	Instructions/Note	
	\sim			tion Code:	¥	< ^	╉╾┥		<u></u>	-			: :		-	3	P			
AF-RHMW17S-WGN01LF-2305W1	513 23	09:35	G	w	NN		$ \downarrow \downarrow$				 				_	<u> </u>	3			
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Possible Hazard Identification					S	ample	Disp	osal	(A fee	may	be a:	ssess	ed if	samj	oles a	ire re	tain	ed longer that	1 month)	
Non-Hazard Flammable Skin Irritant Poison E		Hadio	ological			\Box_R	etum.	To Ci	lient		o 📖	isposa	d By	Lab			Arch	ive For	Months	
Deliverable Requested: 1, 11, 11, 1V, Other (specify)	Prelim data (Lev	vel 1or2)=se	e TAT abo	ve. DoD Sta	ge Sr	pecial	Instru	ctions	JQC P	Requir	emen	ts: DO	DD C	SM p	rojec	t.				
	4 report standar	d TAT. AE	COM EQui	SEDD.	I							14	othod	of Ship	mant					
Empty Kit Relinquished by:		Date:			Time	:					~		Spilou						10	
Reinquished by: ALLE ASDILL	Date/Time:	140	5	Company AECOM		A	(E)	Ê	20	ngh	d_{2}			L		23	M	65	AEcon	
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Relinquished by:	Date/Time:			Company		Rece	fived by	5						Dat	e/Time	r			Company	
Custody Seals Intact: Custody Seal No.:	1					Cool	er Temp	ooratur	e(s) °C	and Ot	ner Rer	narks:		3	.8	-1	3	. Co		
Δ Yes Δ No						<u> </u>			•										Ver: 01/16/2019	

5/15/2023

Eurofins FGS, Seattle 5755 8th Street East

Tacoma, WA 98424

Chain of Custody Record

Revironment Testing

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	Sampler:	ie Asi		a PM: aine Wi	aikar						Fed		icking	No(s):			COC No: 2305W1AFEA1	^	
Client Information	Phone:		2111		Aait:	aisei							of Or	dain					Page:	0
Cheric Constant.	177	1.179	ħ- 9¢		Elaine,	Walke	er@Eu	rofins	ET.co	m		Hav		nyiru					Page 1 of 1	
Company:			PWSID:		T													****	Job #:	
AECOM									Ana	lysis	Red	ques	sted							
Address:	Due Date Reques					١.	\mathbf{N}	Τ							1				Preservation Co	des:
1001 Bishop St. Suite 1600	see subcontrac							$\setminus $									•	13	A - HCL	M - Hexane
City: Honolulu	TAT Requested (lays): Rush ~ :	C Days					N			1								B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip:	-	nuati -	Judy						\mathbf{N}	h .								È	D - Nitric Acid	P - Na2O4S
Hawaii 96813	Compliance Proje	ct: A Yes	A No						A c	Ъ									E - NaHSO4	Q - Na2SO3
Phone:	PO #:)-et			$-\Lambda$	V	1								F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
808-954-4512 / 770-331-0794					î	(XO				14							1		H - Ascorbic Acid	T - TSP Dodecahydrate
Email:	WO #:				or No)					\mathbb{N}	\mathbf{v}						1		I-lce J-DIWater	U - Acetone
Watson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	Project #:				:滕	Ň							\neg						K - EDTA	V - MCAA W - pH 4-5
Project Name: CTO N6274223F0104	60697810				Ś	2-P					\square	6	4						L - EDA	Z - other (specify)
Site:	SSOW#:				- 2								Ľ					containers	Other:	
RHSF					Ser	6						\square						2.		
					78 國	6			1				\sim					Ž		
		l	Sample Type	Matrix	e la compañía de la compañía	DAI								\searrow				Total Number		
		Sample	(C=Comp,	(Wewater, Secolid,	J P	្អុ]				Z I	ł	
Sample Identification	Sample Date	Time	G=grab)	Cowaste/oil, BTeTasse, Anki	. 2 5	8015C					1		- 1	- 1		\sim		lot.	Special in	structions/Note:
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any	Due Date Requeste	d:		1										112	B - NaOH		N - None O - AsNaO2
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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Securofins Environment Testing America

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Client Information		Sampler ARI	b PM: aine W:	alker						edEx	acking	NO(\$)	:			DC No: 305W1AFE	\07				
Client Contact		Phone: XOE, CE		Auer	E-A	Viail:		er@Eu	rofinsE	T.con		St	ate of (awaii	Drigin:				Pa	ige: age 1 of 1		
Company:				PWSID:		T			·····		rsis A	onu	actor	4					b #:		
AECOM Address:		Due Date Request	a.d.	<u> </u>		- 	癜	1 1				- qu	1					ି Pr	eservation (odes:	-
1001 Bishop St. Suite 1600		see subcontrac							-										- HCL	M - Hex	ສກອ
City: Honolulu	Ī	TAT Requested (d	ays): Rush - :	5 Day						\frown								B C	- NaOH - Zn Acetate	N - Nor O - Ash	e laO2
State, Zip: Hawali 96813		Compliance Proje	ct: A Yes	A No		-	.D5/ 2-(2-buloxyethoxy)-ethanoi					\mathbf{n}						E	- Nitric Acid - NaHSO4 - MeOH	P - Na2 Q - Na2 Fi - Na2	SO3
Phone: 808-954-4512 / 770-331-0794		PO #:					loxy)-e											G H	- Amchior - Ascorbic Acid	S-H2S T-TSP	04 Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.krom	is@aecom.com)	WO #:					loxyell				-	_	\sum_{i}	Fa				J	ice - Di Water - EDTA	iŲ - Ace V - MC/ W - pH	A
Project Name: CTO N6274223F0104		Project #: 60697810				No (X	D5/ 2-(2-butoxye				\triangleleft	I	F	N	2	3		L	- EDA		r (specify)
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Possible Hazard Identification		· · · · · · · · · · · · · · · · · · ·				Sa	ample	e Disp	osal (A	l fee n	nay be	asse	ssed	if sa	mple	s are	retai	ned	longer that	1 month)
Non-Hazard 🗁 Flammable 💭 Skin Imitant	Poison B	Unknown	Hadii	ological			\square_{F}	letum	To Clie	nt		Disp	osal E	3y Lat	2		Arc	hive	For	Mon	ths.
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Eurofins FGS, Seattle

Chain of Custody Record

Seurofins

America

5755 8th Street East Tacoma, WA 98424

Client Information	Sampler AULC	Aipi	1,	Lab I Elai		Valke	r					F	FedE			(s)			COC №. 2305W1AFEA1:	2	
Client Contact:	Phone:		-995	E-Ma M.E		ə.Wal	ker@	Eurofi	insET	r,com			State o Hawa	f Origin	n:				Page [.] Page 1 of 1		
Company AECOM	1		PWSID	1	Τ						sis F								Job #		
Address	Due Date Request	ed	I		1	1. Ale	Tr	7	1	ΓÍ		_†			- T -		П		Preservation Co	les	
1001 Bishop St Suite 1600	see subcontract	t																	A HCL	M Hexane	
City Honolulu	TAT Requested (da	ays) Rush - 5	5 Day				_										$\ $		B NaOH C Zn Acetate D Nitric Acid	N None O AsNaO2 P Na2O4S	
State Zip Hawaii 96813	Compliance Projec	cl. ∆Yes	Δ No				othano			\mathbb{N}									E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O	
Phone 808-954-4512 / 770-331-0794	PO #				6		-				1	5							G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dod	
Email Walson Tanji (walson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #				۷ ۷	Q	xyeth					(4	-					S	I Ice J DIWater	U Acetone V MCAA	
Project Name CTO N6274223F0104	Project #· 60697810				š چ	ISD (Yes or No)	Z-Dutc						Š.					Itaine	k edta L eda	W pH 4-5 Z other (sp	ecify)
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RHSF			1		-18	ž,	211										6.1	- - -			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air	S Field Filtere	Perform MS/M	8015C_DAL_GL_D5/ 2-(2-butoxyethoxy)-ethanol											Total Number	Special In	structions/	Note:
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Possible Hazard Identification						Sam	ple D	lispos	al (A	A fee	may	be as	sess	ed if	sam	ples al	re ret	taine	ed longer than		
Non-Hazard Flammable Skin Irritant Poison	B Onknown	nad	iological				Ret	urn To	Clier	nt		DI	ispos	al By	Lab	L		Arch	ive For	Months	
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Eurofins FGS, Seattle 5755 8th Street East

Tacoma, WA 98424

Chain of Custody Record

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Environment Te ting America

Client Information	Sampler Au	e Asy	ilie		PM: line Wa	lker						Carrie Fedf	er Trac Ex	cking f	No(s)				COC №. 2305W1AFEA1	0
Cilent Contact.	Phone (77)	1799		E-M			r@Eu	rofin	ET co				of Ori	igin.					Page Page 1 of 1	
Company AECOM			PWSID		I	T unto	10120	I OTHIN	Ana		Pag								Job #	
Address. 1001 Bishop St Suite 1600	Due Date Request see subcontrac		1			10	N	\Box		lysis	het	lues	leu						Preservation Co	
City Honolulu State Zip Hawali 96813	TAT Requested (d	ays) Rush - (-			anol			$\langle \rangle$	r,						ľ			A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4	M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3
Phone 808-954-4512 / 770-331-0794 Email. Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	PO # WO #				s or No)	D5/ 2-(2-butoxyethoxy)-ethanol					5								F MeOH G Amchlor H Ascorbic Acid I Ice	R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone
Project Name CTO N6274223F0104	Project # 60697810				- Š B	2-butox						6						containers	J DI Water K EDTA L EDA	V MCAA W pH 4-5 Z other (specify)
RHSF	SSOW#				Sample (SD (Yes	D5/ 2-(3						Z	E P	'				of cont	Other	
Sample Identification	Sample Date	Sample Time		Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Ai	Field Filtered	8015C_DAI_GL	J									/		Total Number	Special In	structions/Note:
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Possible Hazard Identification Non-Hazard I Flammable Skin Irritant Poison E	n Unknown	Hadi	ological			\square_{R_i}	eturn	To C	lient	[D	ispos	al By	y Lab	,		ret	taine Archi	ed longer than 1 ive For	1 month) Months
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The first intervention The first intervention <ththe first="" intervention<="" th=""> The first intervention<!--</th--><th></th><th>1</th><th></th><th>ab PM: Elaine Walker</th><th>Carrier Tracking No(s). FedEx</th><th>COC No: 2305W1AFEA12</th></ththe>		1		ab PM: Elaine Walker	Carrier Tracking No(s). FedEx	COC No: 2305W1AFEA12
Control <		•	2	≅.Maii: M Elaine Walker©EurofinsET com	State of Origin: Hawaii	Page: Page 1 of 1
		<u> </u>		lysis	lequested	Job #:
Mit Manada (Bala)	hop St. Suite 1600	Due Date Requested see subcontract				1.
		TAT Requested (days) [.] Rush - 5 [lay			NaOH N Zn Acetate O
	e Zip wai 96813	Compliance Project: Δ Yes Δ	No	lonsd		Nitric Acid P NaHSO4 0
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Client Contact:			
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Login Sample Receipt Checklist

Client: AECOM

Login Number: 126957 List Number: 2 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	
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	

Job Number: 580-126957-1