## 44

PREPARED FOR

**ANALYTICAL REPORT** 

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

Generated 12/13/2023 2:14:40 PM

### **JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

## **JOB NUMBER**

580-134720-1

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**

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Authorized for release by Tracy Dutton, Client Relations Manager <u>Tracy.Dutton@et.eurofinsus.com</u> (253)248-4970

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-134720-1

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#### **Case Narrative**

Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-134720-1

**Laboratory: Eurofins Seattle** 

Narrative

Job Narrative 580-134720-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

#### Receipt

The samples were received on 12/8/2023 4:00 PM. 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 time was 5.0°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.

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

Samples AF-RHMW12A-WGFD01LF-2312 (134720-7), AF-RHMW12A-WGN01LF-2312 (134720-6), AF-RHMW17D-WGN01LF-2312 (134720-2), AF-RHMW17D-WQFB01-2312 (134720-3), AF-RHMW17S-WGN01LF-2312 (134720-4), AF-RHMW17S-WQEB01-2312 (134720-5) and AF-RHMW17-WGN01LF-2312 (134720-1) were analyzed for Glycols- Direct Injection (GC/FID). The samples were analyzed on 12/12/2023 and 12/13/2023.

The continuing calibration verification (CCV) associated with batch 680-812978 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported.

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Eurofins Seattle 12/13/2023

#### **Definitions/Glossary**

Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

#### **Qualifiers**

#### **GC Semi VOA**

 Qualifier
 Qualifier Description

 Q
 One or more quality control criteria failed.

U Undetected at the Limit of Detection.

#### **Glossary**

Abbreviation	These commonly	used abbreviations ma	y or may not be	present in this report.
Appleviation	These commonly	useu abbieviations ma	y or may not be	present in tins 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

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2312 Lab Sample ID: 580-134720-1

Date Collected: 12/06/23 11:50 Matrix: Water

Date Received: 12/08/23 16:00

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 110	5.0	1.1 mg/l			12/12/23 23:48	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2312 Lab Sample ID: 580-134720-2

Date Collected: 12/06/23 10:40 Matrix: Water

Date Received: 12/08/23 16:00

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UQ	5.0	1.1 mg/l			12/13/23 00:11	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2312 Lab Sample ID: 580-134720-3

Date Collected: 12/06/23 10:10 East Sample 15: 300-1347 20-3

Date Received: 12/08/23 16:00

Analyte	Result Qua	lifier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UQ	5.0	1.1 mg/l			12/13/23 00:35	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2312 Lab Sample ID: 580-134720-4

Date Collected: 12/06/23 09:05

Date Received: 12/08/23 16:00

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U Q	5.0	1.1 mg/L			12/13/23 00:58	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WQEB01-2312 Lab Sample ID: 580-134720-5

Date Collected: 12/06/23 09:40 Matrix: Water

Date Received: 12/08/23 16:00

	Method: SW846 8015C	GLY	- Glycols-	<b>Direct Injection</b>	(GC/FID)
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Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 110	5.0	1.1 mg/l			12/13/23 01:21	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2312 Lab Sample ID: 580-134720-6

Date Collected: 12/07/23 09:15

Date Received: 12/08/23 16:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UQ	5.0	1.1	mg/L			12/13/23 01:45	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2312 Lab Sample ID: 580-134720-7

Date Collected: 12/07/23 09:15 Matrix: Water

Date Received: 12/08/23 16:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UQ	5.0	1.1 mg/l			12/13/23 02:08	1

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Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-812978/11 **Client Sample ID: Method Blank** 

**Matrix: Water** 

**Analysis Batch: 812978** 

MB MB

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			12/12/23 19:07	1

Lab Sample ID: LCS 680-812978/7 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 812978** 

	Spike	LCS LCS				%Rec	
Analyte	Added	Result Qualifi	er Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	20.0	19.9	mg/L		100	50 - 150	

Lab Sample ID: LCSD 680-812978/8 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 812978** 

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	20.8		mg/L		104	50 - 150	4	50

Lab Sample ID: 580-134720-1 MS Client Sample ID: AF-RHMW17-WGN01LF-2312 **Prep Type: Total/NA** 

**Matrix: Water** 

**Analysis Batch: 812978** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	20.0	17.7		mg/L		89	50 - 150	

Lab Sample ID: 580-134720-1 MSD Client Sample ID: AF-RHMW17-WGN01LF-2312 **Prep Type: Total/NA** 

**Matrix: Water** 

**Analysis Batch: 812978** 

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	3.0	UQ	20.0	15.3		mg/L		77	50 - 150	15	50

**Prep Type: Total/NA** 

12/13/2023

Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2312

Lab Sample ID: 580-134720-1

**Matrix: Water** 

**Matrix: Water** 

Date Collected: 12/06/23 11:50 Date Received: 12/08/23 16:00

Client: AECOM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	812978	DBM	EET SAV	12/12/23 23:48

Client Sample ID: AF-RHMW17D-WGN01LF-2312

Lab Sample ID: 580-134720-2

Date Collected: 12/06/23 10:40

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	812978	DBM	EET SAV	12/13/23 00:11

Client Sample ID: AF-RHMW17D-WQFB01-2312

Lab Sample ID: 580-134720-3 Date Collected: 12/06/23 10:10 **Matrix: Water** 

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	812978	DBM	EET SAV	12/13/23 00:35

Client Sample ID: AF-RHMW17S-WGN01LF-2312

Lab Sample ID: 580-134720-4 Date Collected: 12/06/23 09:05 **Matrix: Water** 

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY			812978 DBM	EET SAV	12/13/23 00:58

Client Sample ID: AF-RHMW17S-WQEB01-2312

Lab Sample ID: 580-134720-5 Date Collected: 12/06/23 09:40 **Matrix: Water** 

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	812978	DBM	EET SAV	12/13/23 01:21

Client Sample ID: AF-RHMW12A-WGN01LF-2312

Lab Sample ID: 580-134720-6 Date Collected: 12/07/23 09:15 **Matrix: Water** 

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY			812978	DBM	EET SAV	12/13/23 01:45

Client Sample ID: AF-RHMW12A-WGFD01LF-2312

Lab Sample ID: 580-134720-7 Date Collected: 12/07/23 09:15 **Matrix: Water** 

Date Received: 12/08/23 16:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	812978	DBM	EET SAV	12/13/23 02:08

**Laboratory References:** 

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

**Eurofins Seattle** 

## **Accreditation/Certification Summary**

Client: AECOM Job ID: 580-134720-1

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	Progra	am	Identification Number	Expiration Date
ANAB	Dept. o	of Defense ELAP	L2463	09-22-24
The following analyte	are included in this rope	rt but the laboratory is no	ot cortified by the governing author	ity. This list may include analyte
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## **Sample Summary**

Client: AECOM Job ID: 580-134720-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-134720-1	AF-RHMW17-WGN01LF-2312	Water	12/06/23 11:50	12/08/23 16:00
580-134720-2	AF-RHMW17D-WGN01LF-2312	Water	12/06/23 10:40	12/08/23 16:00
580-134720-3	AF-RHMW17D-WQFB01-2312	Water	12/06/23 10:10	12/08/23 16:00
580-134720-4	AF-RHMW17S-WGN01LF-2312	Water	12/06/23 09:05	12/08/23 16:00
580-134720-5	AF-RHMW17S-WQEB01-2312	Water	12/06/23 09:40	12/08/23 16:00
580-134720-6	AF-RHMW12A-WGN01LF-2312	Water	12/07/23 09:15	12/08/23 16:00
580-134720-7	AF-RHMW12A-WGFD01LF-2312	Water	12/07/23 09:15	12/08/23 16:00

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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										4	MB	: 0	16-4	976	139	59	0	America
Client Information	Sampler:	(sut m			PM: aine W	alker				1012	7/23	Carrier	Tracking	No(s):	Cand		COC No: 2312AFEA10	
Client Contact:	Phone: 30% - 6	521-305	ì	E-M			er@E	urofin				State of	Origin:				Page: Page 1 of 1	
Company: AFCOM	1,3-0		PWSID:		T					lysis			-				Job #:	
Address:	Due Date Request	ed:			T			П							11		Preservation Co	des:
1001 Bishop St. Suite 1600	see subcontract				-141											1	A - HCL	M - Hexane
CR Honolulu	TAT Requested (da	ays): Rush - 5	Dav		168	7		ΙÍ					- 1				B - NaOH C - Zn Acetate	N - None O - AsNaO2
Slatu, ZIP:					41	Ferrorm mis/mis/D (Tes of NO) 8015C_DALGL_D5/2-(2-butoxyethoxy)-ethanol								1			D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Hawaii 96813	Compliance Project	ct: A Yes	ΔNo		-11	į							13	$Y \mid$			F - MeOH	R - Na2S2O3
Phone: 80g-954-4512 / 770-331-0794	PO #:				<u> </u>	lo x y						10	3//				G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Squal!	WO #:					3 5						7					I - Ice	U - Acetone
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name:	Occident to	_			<b>⊣</b> 8	or no)				11	1~	Λ				100	J - DI Water K - EDTA	V - MCAA W - pH 4-5
Project Name: CTO N6274223F0104	Project #: 60697810				١٥	چَ ا		Ιİ		f A						contai	L - EDA	Z - other (specify)
Site:	SSOW#:				Sample (Yes or No)	3 2			No.	4	1						Other:	
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			Sample	Matrix	Filtered	PO15C_DALGL_D5/2-(2-t			/							Total Number		
		Sample	Туре	(W=water, S=solid,		5 3										Ž		
Sample Identification	Sample Date	Time	(C=comp, G=grab)	Oww.aste/oil.	Field	5 5	1/	rı								100	Special In	structions/Note:
		>		ation Code:	M)	A	_				1.					X		
AF-RHMW17-WGN01LF-2312	12/6/23	1150	G	w	NI	N X	$\top$									3		
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580-134720 00-1					П													
580-134720 Chain of Custody					H	+	1		_	+	$\Box$	$\dashv$		-				
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Possible Hazard Identification					' s												ned longer than	1 month)
Non-Hazard Flammable Skin Irritant Poison E	3 Unknown	Hadi	ological			$\Box$	Return	TOC	Client	1	<b>—</b> D	isposa	l By La	ab		Arc	hive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev				age S	pecia	Instru	uction	rs/QC	Requi	remen	its: Do	DD QS	M proje				
Empty Kit Relinquished by:	4 report standar	d IAI. AE	COM EQui:	S EDD.	Time	e:	_				-	Me	thod of	Shipmen	t:	Ħ		
Reinquished by: A4 C 13	Date/Time:	10	~ /	Company			ejved b	y:	~			- 7		Date/Tir	ne:	,	1	Company
Max gallin	Date/Time:	13	35	AECOM Company			eived b			12	23	Ly		Date/Tir	101	2	5 /335	Company Company
Helinquished by: Filmbands	12/7/2	135	V	ALCO	m				7	1						,		
Relinquished by:	Date/Time:			Company		Rec	eived b	y: /	U	1				Date/In	ne .	2	3 1600	Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coo	ler Tem	peratu	relation	and Ot	her Re	marks:		1			4.7/5	0
		-						V	/								1.0	Ver: 01/16/2019

#### **Chain of Custody Record**

Eurofins FGS, Seattle 5/55 8th Street East Tacoma, WA 98424		Chain •	of Cus			10:	r <b>d</b>				Un.	1+00	141	ND Ct &	147/	eurofir	Environme	ent Testing
Client Information	Sampler: Mux	Guttin			ь РМ: aine W	alke	er				Carrier T	racking N	lo(s):		23	No: 12AFEA11		
Client Contact:		521-3	3051		Mail: .Elaine	Wa	lker@E	urofinsE	T.com		State of Hawaii	Origin:			Pag	e: ge 1 of 1		
Sompany: AECOM			PWSID:		Ī				nalysi	s Rec	<b>.</b>	d	-	$\exists$	Job			
Address:	Due Date Request											ĪT		7	Pre	servation C	odes:	
1001 Bishop St. Suite 1600 City:	see subcontrac				-11	3						1 1	/	11		HCL NaOH	M - Hexane N - None	
Honolulu		Rush -	5 Day			ı,	-					10			C-	Zn Acetate Nitric Acid	O - AsNaO2 P - Na2O4S	
State, Zip: Hawaii 96813	Compliance Proje	ct: A Yes	ΔNo		-11		than			1	12	1			E٠	NaHSO4	Q - Na2SO3	3
Phone: 808-954-4512 / 770-331-0794	PO #:			-5	Ĵ <sub>Ŷ</sub>		oxy)-(				11/00	7			G-	MeOH Amchlor Ascorbic Acid	R - Na2S2O S - H2SO4 I T - TSP Doo	
Email: Watson Tanji (watson.tanji <b>©</b> aecom.com)/ Mark Kromis (mark.kromis <b>©</b> aecom.com)	WO #:				Sor	ĝ	_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol			n:n					1-1		U - Acetone V - MCAA	
Project Name: O N6274223F0104	Project #: 60697810				Sample (Yes or	5	2-but		10	9					E K-	EDTA EDA	W - pH 4-5 Z - other (sp	pecify)
Site:	SSOW#:	-					)2/5-(	,	teur						S Oth	er:		
RHSF						MSWMSD	GL D					11				-		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W-water, S-solid, O-waste/oil, BT-Tiesue, An-	Field Filtered	M WIGHT	8015C_DAL								Total Number	Special	Instructions	/Note:
	$\geq \leq$	$\geq \leq$	Preserva	ation Code	$\square$	4	A								$\times$		<del></del>	
AF-RHMW17D-WGN01LF-2312	12/6/23	1040	G	W	N	N	X					$\sqcup$			3			
AF-RHMW17D-WQFB01-2312	12/6/23	1010	G	w	NI	N	x								3			
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Cooling Managed Identification					Ц,		-/a Oi-	//	1600			7 2 2 2			1000	lan ana the	a 1 month)	
Ossible Hazard Identification  Non-Hazard	Unknown	Parti	iological		١	am <sub>i</sub>	Pie Disp	To Clie	nt	be a	issesse Disposa	Rvial	mpies a		ainea Archive		nn 1 month) Month	15
eliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	/el 1or2)=se	e TAT abo		tage S									_	11011110			
mpty Kit Relinquished by:	4 report standar	d TAT. AF Date:	COM FOul	S EDD.	Time	e:					Me	thod of S	hipment:	_				
elinquished by:	Date/Time;	133	5	Company		R	ecelyed b	YF	· A m	מטו	di	T <sub>1</sub>	ate/Time	67	22	1/332	Company	on
elinguished by: Edmands 1350/2/1/23	Date/Tirple:	2 /2/2	14 %	Company	Eco	B	leceived b					0	ate/Time	r:	11	-	Company	
elinquished by:	Date/Time:	milla	123	Company	- \ '	_	eceived b	y: //	1			10	ate/Time	5/2	3	1600	Company	
Custody Seals Intact: Custody Seal No.:						С	cooler Tem	perature (	°C and	Other Re	marks:		-	7		11-	1/5.0	,
2 100 A 110								V						_			Ver: 01/16	

#### **Eurofins FGS, Seattle**

5755 8th Street East Tacoma, WA 98424

## **Chain of Custody Record**

© eurofins 16-976 1359€

Environment Testing America

Client Information	Sampler: Mux	6-11/2			PM: ine W	alker						Carr		king No	s):			OC No: 312AFEA1	12			
Client Contact	Phone: 800 -	521-30	120	E-M				Eurofi	insET	.com			of Orig	jin:		Ħ	Pa	age: age 1 of 1				
Company: AFCOM Address:			PWSID:		Т				An	nalysi	is Re	que	sted					b#:				
1001 Bishop St. Suite 1600	Due Date Request see subcontrac	t					T	Π		Í		İ		П		1	A	reservation		es: M - Hexan	ie.	
City: Honolulu State, 7tg:	TAT Requested (d	ays): Rush - 5	Day			9					Ш			3	$\square$		C	- NaOH - Zn Acetate - Nitric Acid	В	N - None O - AsNa0 P - Na2O4		
State, 7w:  tlawaii 96813	Compliance Proje	ct: A Yes	Δ No		11	ethe.					Ш	,	016	7			E	- NaHSO4 - MeOH		Q - Na2S0 R - Na2S2	03	
tiawaii 96813 Thone: 808-954-4512 / 770-331-0794	PO #:				Ŷ	thoxy)					0 8	1				Ш	Н	- Amchlor - Ascorbic A	cid		odecahydra	te
Email: Watson Tanji (watson.tanji	WO #:				0 8 3	loxy lo				NEX	10	1		Ш		1	<b>2</b> J	- DI Water		U - Acetor V - MCAA		
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No)	2-(2-bu				1/10				Ш		njegood		- EDTA - EDA		W - pH 4-5 Z - other (s		
CTO N6274223F0104 Site: RHSF	SSOW#:				Sam	D5/								Ш		3	5	her:				
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasta/oil, BT=Tissue, A=Akr	Field Filtered Sample (Ve	## ## ## ## ## ## ## ## ## ## ## ## ##										Total Mumbe	OTAL MUTTO	Specia	ai ins	truction	s/Note:	
Sample Rendincation		> <		tion Code:	$\Diamond$	A	-				434	,			12,	Š		Open		- Control	311010.	
AF-RHMW17S-WGN01LF-2312	12/6/23	0905	G	W	N	٧X										3	3					
AF-RHMW17S-WQEB01-2312	12/6/23	0946	G	W	NI	۷X						, ,				3	3					
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100000000000000000000000000000000000000					#	#	1			_	Ш			4	$\vdash$	1 19	1					4
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					╁┼	+	+		H	+	+	$\vdash$										ᅱ
Possible Hazard Identification  Non-Hazard Flammable Skin Irritant Poison E	Onknown	Farli	ological		s	ampl	le Dis	sposa m To	al (A Client	fee ma			ssed i		oles an			l longer th	nan 1	month) Mont		┪
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	vel 1or2)=se	e TAT abo	ve. DoD Sta	ige S	pecia	l Inst	ructio	ns/Q	C Requ					roject.		0					ᅵ
Empty Kit Relinquished by:	4 report standar	Date:	JOIN EOUIS	S EDD.	Time	<b>)</b> :	_						Method	of Ship	ment:		1					┪
Refinquished by: Max 6 at 11h	Date/Time:/ C/z	3 12		Company AECOM		Rec	elyed	by:	E	dm	030	1,		Dat	2/Times	1/2	.>	1335	- (	Company	02	
Relinquished by Edmonds	Date/Time:	2 12	50	AEO	^		bevie		1	1				Dat	o/Time:					Company		٦
Relinquished by:	Date/Time:	<del>-) / -</del>	1	Company		Rec	eived	byr	<i>(</i> )	1		-		Dat	Time:	2/1	13	160	0	Company		ヿ
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coo	oler Ye	properate and the second	ture(s)	C and	Other F	Remark	S.		1			(	1.5	45.	0	
									V							111	1		-	Ver: 01/1	6/2019	_

#### **Eurofins FGS, Seattle**

5755 8th Street East Tacoma, WA 98424

## **Chain of Custody Record**

UNITED AWB

🔆 eurofins

Environment Testing America

Client Information	Sampler:	VILLANO	34)	Lab P Elain	M: ne Wa	alker				П		rrier Tra	icking N	o(s):	.17		COC No: 2312AFEA05			
Client Contact:	-	(45-7)		E-Mai	lt:		r@ Eu	rofinsE	T.con	n	Sta	ate of O					Page: Page 1 of 1			_
Company: AECOM			PWSID:					,	Analy	sis F	Reque	estec					Job #:			
Arress: 1001 Bishop St. Suite 1600	Due Date Reques see subcontrac				17 7										/		Preservation C	odes:	rane	
City Honolulu	TAT Requested (d	lays): Rush - 5	Day		0	-				Ш							B - NaOH C - Zn Acetate	N - Non O - AsN	e	
State, Zip: Hawaii 96813	Compliance Proje	ct: A Yes	Δ No		- 6	ethan						-	1		1	7	D - Nitric Acid E - NaHSO4	P - Na2 Q - Na2	SO3	
Hawaii 96813 Phone: 908-954-4512 / 770-331-0794	PO #:	·			9	-(kxot				N	\						F - MeOH G - Amchior H - Ascorbic Acid	R - Na2 S - H2S		
Emali: Watson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis @aecom.com)	WO #:				Sample (Yes or No)	oxyeti					W)		13			s.	I - Ice J - DI Water	U - Acel	tone	•
Project Name: CTO N6274223F0104	Project #: 60697810				Opple (Yes or	(2-bul				1	V	43				contain	K - EDTA L - EDA	W - pH - Z - othe	4-5 r (specify)	
Site: RHSF	SSOW#:				Samp 18D ()	D5/2					′   `					5	Other:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W-water, S-eolid, O-waste/oil, BT-Tissus, A-Air) ation Code:	Field Filtered Sam	> 8016C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol	1			V						Total Number	Special	Instructio	ns/Note:	
AF-RHMW12A-WGN01LF-2312	(2/7/17	0915	G		N				+			+	1			3				
AF-RHMW12A-WGFD01LF-2312	12/7/27	0115	G	w	N N	X		+	+		+	+		+		3				_
	1-111-1	- 11			1										_				-	_
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					7															
		0	12/7/2	3																
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Possible Hazard Identification  Non-Hazard Flammable Skin Irritant Poison B			logical					osal ( / To Clie		may b		essed osal E					ed longer than ive For	1 month) Mon		
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar				Sp	ecial I	nstruc	tions/(	QC Re	quirer	nents:	DOD	QSM p	oroject.						
Fmotv Kit Relinquished by:		Date:			Time:							Metho	od of Shi							
Relinquished by:	Date/Time: 12/7 Date/Time: 12/7	13°		AECOM Company ACCOM			ved by: ved by:	NU	uha 2	ela	Ne	<u>~</u>		ite/Time: ite/Time:	121	7 /2	1330	Company	GCOM ,	4
Relinquished by:	12/7/73 Date/Time:	15	,,,	Company		Recei	ved by:	11	1	1			Da	ite/Time:	, /	23	1600	Company	у	$\dashv$
Custody Seals Intact: Custody Seal No.:						Coole	r Témp	eráture(	sync ar	nd Othe	Remai	rks:		104	4/0	رر	1600			$\exists$
									/						i	1-	2/50	Ver: 01/	/16/2019	

Client: AECOM Job Number: 580-134720-1

Login Number: 134720 List Source: Eurofins Seattle

List Number: 1

Creator: Johnson, Corey M

oreator. Johnson, Corey W		
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	