PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 5/30/2023 4:07:19 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-127342-1

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

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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: 580-127342-1

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Case Narrative

Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127342-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-127342-1

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

Five samples were received on 5/17/2023 10:25 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 3.1° 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-RHMW16-WGN01LF-2305W3 (580-127342-1), AF-RHMW12A-WGN01LF-2305W3 (580-127342-2), AF-RHMW12A-WGFD01LF-2305W3 (580-127342-3), AF-RHMW06-WGN01LF-2305W3 (580-127342-4) and AF-RHMW04-WGN01LF-2305W3 (580-127342-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/26/2023.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-780505 recovered outside control limits for the following analyte: 2-(2-Butoxyethoxy)ethanol.

No additional 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: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifier Description

Qualifiers

Qualifier

GC Semi VOA

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J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

DLC

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					

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)

Decision Level 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

Eurofins Seattle

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Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2305W3 Lab Sample ID: 580-127342-1

Date Collected: 05/15/23 11:38 Matrix: Water

Date Received: 05/17/23 10:25

Analyte		ualifier LOC	DL Unit	. D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	14 10	5.0	1.1 mg/			05/26/23 01:39	1

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Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2305W3 Lab Sample ID: 580-127342-2

Date Collected: 05/15/23 09:23

Date Received: 05/17/23 10:25

Analyte	Result Qu	alifier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 U.C	5.0	1.1 mg/l			05/26/23 02:02	1	

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Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2305W3 Lab Sample ID: 580-127342-3

Date Collected: 05/15/23 09:23 Matrix: Water

Date Received: 05/17/23 10:25

	Method: SW846 8015C	GLY	- Glycols-	Direct Injection	(GC/FID)
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Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 UMO	5.0	1.1 mg/l			05/26/23 02:26	1	

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Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2305W3 Lab Sample ID: 580-127342-4

Date Collected: 05/15/23 11:10 Matrix: Water

Date Received: 05/17/23 10:25

Analyte	Result Qualifier	r LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UQ	5.0	1.1 mg/l			05/26/23 02:49	1

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Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2305W3 Lab Sample ID: 580-127342-5

Date Collected: 05/15/23 09:40 Matrix: Water

Date Received: 05/17/23 10:25

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U M Q	5.0	1.1 mg/L			05/26/23 03:12	1

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QC Sample Results

Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-780505/16 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 780505

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			05/26/23 01:16	1

Lab Sample ID: LCS 680-780505/12 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 780505

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	50.0	39.0	Q	mg/L		78	50 - 150	

Lab Sample ID: LCSD 680-780505/13 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 780505

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	20.6	M Q	mg/L		103	50 - 150	62	50

Lab Sample ID: 580-127342-3 MS Client Sample ID: AF-RHMW12A-WGFD01LF-2305W3 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 780505

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	3.0	UMQ	20.0	15.7		mg/L		78	50 - 150	

Lab Sample ID: 580-127342-3 MSD Client Sample ID: AF-RHMW12A-WGFD01LF-2305W3

Matrix: Water

Analysis Batch: 780505

-	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	UMQ	20.0	18.5		mg/L		93	50 - 150	17	50

5/30/2023

Prep Type: Total/NA

Job ID: 580-127342-1

Matrix: Water

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2305W3

Lab Sample ID: 580-127342-1 **Matrix: Water**

Date Collected: 05/15/23 11:38 Date Received: 05/17/23 10:25

Client: AECOM

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 05/26/23 01:39 Total/NA 8015C GLY 780505 GEM EET SAV Analysis

Client Sample ID: AF-RHMW12A-WGN01LF-2305W3

Lab Sample ID: 580-127342-2

Date Collected: 05/15/23 09:23 Date Received: 05/17/23 10:25

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 780505 GEM EET SAV 05/26/23 02:02

Client Sample ID: AF-RHMW12A-WGFD01LF-2305W3 Lab Sample ID: 580-127342-3

Date Collected: 05/15/23 09:23 **Matrix: Water**

Date Received: 05/17/23 10:25

Batch Batch Dilution Batch **Prepared** or Analyzed **Prep Type** Method **Factor Number Analyst** Type Run Lab 05/26/23 02:26 EET SAV Total/NA Analysis 8015C GLY 780505 GEM

Client Sample ID: AF-RHMW06-WGN01LF-2305W3 Lab Sample ID: 580-127342-4

Date Collected: 05/15/23 11:10 **Matrix: Water**

Date Received: 05/17/23 10:25

Batch Batch Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 780505 GEM EET SAV 05/26/23 02:49 Total/NA

Client Sample ID: AF-RHMW04-WGN01LF-2305W3 Lab Sample ID: 580-127342-5

Date Collected: 05/15/23 09:40 **Matrix: Water**

Date Received: 05/17/23 10:25

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed **Prep Type** Type Run Lab 05/26/23 03:12 Total/NA Analysis 8015C GLY 780505 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: 580-127342-1

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	Pr	rogram	Identification Number	Expiration Date					
ANAB	Dept. of Defense E		L2463	09-22-24					
The following englyte	es are included in this report, but the laboratory is not certified by the governing								
the agency does not		ort, but the laboratory is not o	certified by the governing authority.	This list may include analytes for whic					
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Eurofins Seattle

Sample Summary

Client: AECOM Job ID: 580-127342-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127342-1	AF-RHMW16-WGN01LF-2305W3	Water	05/15/23 11:38	05/17/23 10:25
580-127342-2	AF-RHMW12A-WGN01LF-2305W3	Water	05/15/23 09:23	05/17/23 10:25
580-127342-3	AF-RHMW12A-WGFD01LF-2305W3	Water	05/15/23 09:23	05/17/23 10:25
580-127342-4	AF-RHMW06-WGN01LF-2305W3	Water	05/15/23 11:10	05/17/23 10:25
580-127342-5	AF-RHMW04-WGN01LF-2305W3	Water	05/15/23 09:40	05/17/23 10:25

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Chain of Custody Record

Eurofins FGS, Seattle 5755 8th Street East

Tacoma, WA 98424

Client information	Sampler: S	Linn	WIZ	Lab Elai	PM; Ine Wa	lker						nier Trac dEx	king No(s):		COC No: 2305W3AFE	A06
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Phone: 808-954-4512 / 770-331-0794	PO#:				اءا	8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol						KV.				F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
Email:	WO #:				2 2	ķ					. 6					H - Ascerbic Acid	U - Acetone
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis @aecom.com)					3 3	ě				l t	%//					J - DI Water K - EDTA	V - MCAA W - pH 4-5
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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

Client information Client Contact:	Sympler:	Flat.	n-14		b PM: aine	Wall	ker							anier T edEx	rackinç	No(s)				COC No: 2305W3AFEA0	5	
Client Contact:	Phone: 878-59				Maii: Elalı	ne.W	alke	ır@Eu	noth	sET.	com			ate of awaii	Origin;					Page: Page 1 of 1		
Company: AECOM Address:			PWSIO;		Τ					An	alys	is R	equ	este	d					Job #:		
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawali 96813	Due Date Reques see subcontrac TAT Requested (c	it lays): Rush - i					hanol								NY CV			7		Preservation Con A - HCt. B - NaOH C - 2n Acetate D - Nitric Acid E - NaHSO4	des: M - Hexene M - None O - AsNaO2 P - Na2O4S O - Na2SO3	
Phone: 808-954-4512 / 770-331-0794 Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	PO #: WO #:				e (Yes or No)	(Og a	2-(2-butoxyethoxy)-et		40000			709		The second	K		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ľ	F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Di Water	R - Ne2S2O3 S - H2SO4 T - TSP Dodecahydra U - Acetorie V - MCAA	te
Project Name: CTO N6274223F0104 Site: RHSF	Project #: 60697810 SSOW#:				Semple (Y	SD (Tes or)	DS/ 2-(2-bu				/	1							Ē	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)	
Sample identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wowater, Sesolid, Octoantaloid, BTo Heave, And)	Field Filtered	S manual S	8015C_DALGL	4	1	1							_	-	Total Number	Special in	structions/Note:	
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Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424

Client Information
Client Contact:

Chain of Custon	dy Record		Covingment lesting America
Bhivey	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2305W3AFEA09
56-938-7710	E-Mail: M.Elaine.Watker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1
PWSID;	Analysis	Requested	Job A:
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Project: A Yes A No			E - NeHSO4 Q - Ne2SO3

	<u> </u>	- 138	3-7)	10 M.	Elaine.	.Walker@EurofinsET.com Hawaii						rage: Page 1 of 1						
Company: AECOM			PWSID:						Anal	ysis	Requ	este	1			ŀ	Job A:	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Eimaii: Walson Tariji (walson,tanji@aecom.com)/ Mark Kromis (mark.kromts@aecom.com) Project Name: CTO N6274223F0104 Site: RHSF	Due Date Requested See Subconfract YAT Requested (day) Compliance Project: PO #: WO #: Project #: 60697810 SSOW#:	s): Rush - (Sample (Yes or No)	DS/ 2-(2-butoxyethoxy)-ethanoi						1		312	B	satainers	Preservation Co A - NCL A - NCL B - NacN C - Zn Acetate D - Naric Acid F - NetNor F - MeOH G - Amchlor H - Ascorbior H - Ascorbior K - EDTA L - EDA Other:	M. Hexane N. None O. AsNAO2 P. Ne2O4S O. Ne2SO3 R. Ne2SO3 S. H2SO4 T. TSP Dodecahydrate U. Acetone V. MCAA W. pH 4-5 Z. other (specify)
Sample identification AF-RHMW06-WGN01LF-2305W3		Sample Time	Sample Type (C=comp, G=grab) Preserve	Matrix (W-water, Secolid, Onwasted(), STeTissie, A-Air) Milon Code; W	Z X Field Filtered	A	/	1								C Total Number	Special in	etructions/Note:
					h	21											-	
Possible Hazard Identification					Se	mple	Dispo	sel (+	may b	12	ssed	if sam	Dies si	re rela	alnec	d longer then	i month)
Non-Hazard Flammable Skin Irritant Poison B Deliverable Requested: I, II, III, IV, Other (specify)	ominown Prelim data (Level 4 report standard T	AT. AFC	TAT abov	FDD	je Sp	ecial I	nstruc	o Clie tions/0	nt QC Re	quiren	Disponents:	DOD	/ Lab QSM p	roject.	Ar	chive	For	Months
	Da S/15/23 Sale Time: 5/15/23	13V	70	Company AECOM Company Company Company	Time:				alv	иsh	√ <u>.</u>	Iweino	Date Date 5	Plank;	51 : 123	2-3	11.00 1025	Company Company Company
Custody Seals Intact: Custody Seal No.:						Cooley/emperature(e) °C and Other Remarks:										1)	2.9	

Ver: 01/16/2019

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

V	eurofins	
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Environment Testing

Client Information	SempleyShi	Vl.M			bPM: aine V	: Cerrier Tra Walker FedEx								g No(s)	:		GOC No: 2305W3AFEA08				
Client Contact:	756-C		710	ΕA	Aail:								l Origin	:		· · · · · · · · · · · · · · · · · · ·	Page: Page 1 of 1				
Company: AECOM	<u>, , , , , , , , , , , , , , , , , , , </u>	10.5	PWSID:		T						s Red	uest					Job #:				
Address:	Due Date Reques		· *		11			T		<u> </u>	Т		T	T		7	Preservation C	odes:			
1001 Bishop St. Suite 1600 City:	See subcontrac				1			1						100	5/		A-HCL	M - Hexane			
Honolulu	TAT REQUESTED (C	Rush -	5 Day								ĺ		- las	مرر (۱۷			B - NaOH C - Zn Acetate	N - None D - AsNaO2			
Siste, Zip: Hawail 96813	Compliance Proje	-l. 1 V	A Ma			2		1			1	۸	W)	X 1			D - Nitric Actd E - NaHSO4	P - Ne2O4S Q - Ne2SO3			
Phone;	PO #:	CC A 188	a NO		- 1	1			1	$\sqrt{}$		V	X				F - MeOH	R - Na2S2O3			
808-954-4512 / 770-331-0794					9	Į Š			- 1	Jς	ıΠ	$\mathcal{N}_{\mathcal{L}}$	1		ı		G - Amchior H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrai			
Emalt; Matson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				ample (Yes or No	D5/ 2-(2-butoxyethoxy)-ethano			1	1	113		ı			10	I - Ice	U - Acelone			
Project Name:	Project #:				-J\$J1	ş			1	\ II/						containers	J · DI Water K · EDTA	V - MCAA W - pH 4-5			
CTO N6274223F0104	60697810					ķ	-	1 1		Ψ_{ℓ}	1		1			Ę	L - EDA	Z - other (specify)			
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Sample Identification	Sample Date	Time		Cerreste/oil, STeTissue, Askir	, E 1	8015C										2	Special is	structions/Note:			
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Custody Seals Intact: Custody Seal No.:						Cook	sr em	peratur	e(s) °C	and Oth	es Rem	árks;				4	1120	•			
Δ Yes Δ No						1	1/									7.	117.51				

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing Am rica

Client Information	Sampler Signal S	hinm	ds		Lab PM: Carrier Tracking Elaine Walker FedEx						g No(s)			COC No: 2305W3AFEA06							
Client Contact:	202 292-	1107		E-M	lail.			@Euro	dinsF	T co	m		State of	f Origin				Page Page 1 o	1		······································
Company	1000 375	00-1	PWSID.	IVI C	Lan	G, VV CI	inci e	» Luic			-		uest		*****			Job #			
AECOM Address.	Due Date Request				+		Т		1	Allai	ysis	-	uesi				~	Preservat	on Co	des	
1001 Bishop St Suite 1600 City	see subcontrac				- 1		l									X		A HCL B NaOH		M Hexan N None	е
Honolulu	TAT Hequesica (a	Rush - 8	Day				-									/		C Zn Ace D Nitric A		O AsNaC P Na2O4	
State Zip Hawaii 96813	Compliance Projec	ct: A Yes	ΔNo		┨	١.	ethan							16	1			E NaHSC F MeOH		Q Na2SC R Na2S2	03
Phone [.] 808-954-4512 / 770-331-0794	PO#				ା		ox)						/k	()\\\			ĺ	G Amchic		S H2SO4	
Email Walson Tanji (walson tanji @aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#				Sample (Yes or No)	②	8015C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol	ŀ				$ \alpha $	5/				ي	l ice		U Aceton	
Project Name	Project #				څ –	Jo s	-parto				}						containers	K EDTA	•	W pH 4-5 Z other (s	i
CTO N6274223F0104 Site·	60697810 SSOW#			·	불	33	2,5-(2			Ι,								Other ·			,,,,,
RHSF					- Sp	JSIN.	٦		Ι.								er of	<u> </u>			
			Sample	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Ai	iltere	Perform MS/MSD (Yes or	DAL	/	X								Total Number				
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Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Ai Ition Code	<u>"E</u>	-	8 A I	Carrier Street			The state of the s	_		-000000			Ę	Spe	cial In	struction	s/Note:
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Possible Hazard Identification Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B	Un known		ological			Sam _j	ple L	Dispo: turn Ti	sal (A fee	may [be a	isses: Dienos	ed if a al By i	sample	es are	retai	ned longe hive For_	r than	1 month) Mont	he
Deliverable Requested I, II, III, IV, Other (specify)	Prelim data (Lev	vel 1or2)=se	e TAT abo	ve DoD Sta	age						Requir	eme	nts D	OD Q	SM pro		7110	anve i or_		WIOTH	
Empty Kit Relinquished by	4 report standar	d TAT. AE Date	COM EQuil	S.EDD.	Tin	ne							N	lethod c	f Shipm	ent.					
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	Date/ time.			Company				<u>//</u>							Date/	HIIG				Company	
Custody Seals Intact Custody Seal No Δ Yes Δ No						c	ooler	Tempe	rature	(s) °C	and Oth	ner Re	marks.			3.	1/2	2.9			
																	- (-			Ver: 01/1	6/2019

Chain of Custody Record



Am, rica

Client Information	Sampler Stylemote Elain					aine Walker F								ng No(s)			COC No: 2305W3AFEA0	5	
Client Contact.	Phone. 328-59			E-Ma M E		Wall	ker@	Eurofi	insET.	.com		State	of Origir /aii				Page Page 1 of 1		
Company AECOM	4 X		PWSID		Ī				An	alys	is Re	ques	ted				Job#		
Address 1001 Bishop St. Suite 1600	Due Date Request see subcontrac								H			-			-	,	Preservation Cod A HCL	les M Hexane	
City Honolulu	TAT Requested (d	ays) Rush - 5	Day			1	<u> </u>						7/X	$ \cdot $	1		B NaOH C Zn Acetate D Nitric Acid	N None O AsNaO2 P Na2O4S	
State Zip Hawaii 96813 Phone	Compliance Proje	ct. Δ Yes	ΔNo		1	m MS/MSD (Yes or No))-etnar					\perp_{λ}	W.	11			E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3	
808-954-4512 / 770-331-0794 Email	Wo#				Įĝ		emoxy					6	V [-	G Amchlor H Ascorbic Acid I Ice	S H2SO4 T TSP Dodecahydrate U Acetone	
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	Project #				les or	S S	utoxy				100	X				ners	J DI Water K EDTA	V MCAA W pH 4-5	
Project Name CTO N6274223F0104	60697810 SSOW#				Sample (Y	S S	2-(2-2				Y					container	L EDA Other	Z other (specify)	
Site RHSF	SSOW#				San		6			1						5			
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oil,	eld Filtere	Perform MS/MSD (Yes or No)	Jac_DAL_6								فتيريت فالمعر	Total Number			
Sample Identification	Sample Date	Time		BT=Tissue, A=Air)	以		≅ A I				-					×	Special In	structions/Note	
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison E	Unknowr	n Badi	ological		ŀ]	ispos a urn To	•		ay be		s sed if sal By	-	s are		ned longer than hive For	1 month) Months	
Deliverable Requested I, II, III, IV, Other (specify)	Prelim data (Le 4 report standa	vel 1or2)=se	e TAT abo		ge S						uirem				ject				
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Relinfolished by ALX EVNYW Relinfolished by	Date/Time: Company Date/Time: Company			Received by								Date/		23	1025	Company Company			
Custody Seals Intact Custody Seal No						C	notes T	Empera	tura(e)	°C and	Other	Romark		<u> </u>					
Tousion Seat No.						IOC	- OICE	, inpera	(3)	O and	Ju)01	, .u., rou N			3		29	Ver 01/16/2019	

Page 20 of 23 5/30/2023

Chain of Custody Record



Am rica

Client Information	Sample S	lively	1	Lab F Elai							arrier Tr edEx	acking N	√o(s)			COC No ⁻ 2305W3AFEA09		
Client Contact.	Phone: 856	779	-77	A E-Ma	il		0.5					tate of C	rigin				Page	
Company	1 900	150	PWSID	IVI E	laine	Walk	er@E	uronn				ławaii					Page 1 of 1 Job #	
AECOM Address	Due Date Requeste				L.	1000			Ana	lysis	Requ	este	1			12	B	
1001 Bishop St. Suite 1600	see subcontrac					1					1 1				XIB	1	Preservation Cod A HCL	es M Hexane
City Honolulu	TAT Requested (da	ays) Rush - 5	Day]	1									2		B NaOH C Zn Acetate	N None O AsNaO2
State Zip Hawaii 96813	Compliance Projec	t. Δ Yes	A No		1	ethano						М					D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone. 808-954-4512 / 770-331-0794	PO # ⁻				<u>ş</u>	l VXO					\mathcal{U}		I				F MeOH G Amchlor H Ascorble Acid	R Na2S2O3 S H2SO4 T TSP Dodecahydrate
Emall Walson Tanji (walson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#		-		3s or	SD (Tes or No) DS/ 2-(2-butoxyethoxy)-ethanol					{ <i>!</i>	\mathcal{Y}			i	S S	lice JDIWater	U Acelone V MCAA
Project Name. CTO N6274223F0104	Project # ⁻ 60697810				Sample (Yes or	(2-but				1,	M					ntainer	K EDTA L EDA	W pH 4-5 Z other (specify)
Site [,] RHSF	ssow#				Sami	2/50				orange						oj co	Other [,]	:
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Air)	Field Filtered	Perform MS/MSD (Tes or No)			1							Total Number	Special In	structions/Note:
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Possible Hazard Identification Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B	Unknown	Fadio	logical		Is	Samp	ie visj Return	posai To C	l (A fe Client	e may	pe as	sesse sposal i	d II sa. By Lab	mpies			ned longer than ive For	Months
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Relinquished by	Date/fime			Company		Red	ceived b	y /					C	Oate/Tin	ne:		1	Company
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																		Ver: 01/16/2019

Page 21 of 23 5/30/2023

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Атынса

Client Information	Sampler	ri w		Lab f	PM: ne W	alkar							rier Trac	king No(s)			OC No: 305W3AFEA	ns.	
Client Contact:	Phone 56 - C	24.7	TIN	E-Ma	ılł:		•					Stat	e of Ori	jin			Pa	age.		
Company	J SOOR C	150-1	PWSID:	<u>M</u> E	laine	Walk	ker@E	urofir	nsET	com		Ha	waii					age 1 of 1		
AECOM									An	alys	is Re	eque	sted		.,		\perp			
Address 1001 Bishop St Suite 1600	Due Date Request see subcontrac				П											1	- 1	reservation C	odes M Hexane	
City Honolulu	TAT Requested (d		Day		11									119/2			B	NaOH Zn Acetate	N None O AsNaO2	
State Zip: Hawaii 96813	Compliance Proje	ct. Δ Yes	Δ Νο		1	ethanc		1					1				Ε	Nitric Acid NaHSO4 MeOH	P Na2O4S Q Na2SO3 R Na2S2O3	
Phone ⁻ 808-954-4512 / 770-331-0794	PO#				<u>ş</u>	loxol-						\ X					G	i Amchlor I Ascorbic Acid	S H2SO4	cahydrate
Email Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #				Sample (Yes or No)	SU (Tes or No) DS/ 2-(2-butoxyethoxy)-ethanol					$/ \mathcal{Y} $	9					S J	lce DI Water	U Acetone V MCAA	
Project Name. CTO N6274223F0104	Project # 60697810				S S	-(2-bu				Y	X						Ē	EDTA EDA	W pH 4-5 Z other (spec	cify)
Site RHSF	SSOW#				Sam	DS/				1						1	5	ther		
Sample Identification	Sample Date	Sample Time	AND THE RESERVE TO THE PARTY OF	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air) tion Code	Field Filtered Sample (Yes or	A renderm moving											lotal Number	Special	nstructions/N	lote [.]
AF-RHMW04-WGN01LF-2305W3	5/15/23	0940	G	w	N	V X	-		\vdash	\dashv	_		$\dagger \dagger$	-	\vdash	-	3			
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Possible Hazard Identification					S	amp	le Dis	sposa	I(A	fee m	ay be	asse	ssed	if samp	les ar	e reta	aine	d longer tha		
Non-Hazard Flammable Skin Irritant Poison E	Unknown Prelim data (Le		ological	ve DoD Sta	00 0		Retur				uiron	Disp	osal B	y Lab		' A	rchiv	e For	Months	
	4 report standar	d TAT. AE	COM EQuil	S EDD.			ai 1113t	raction	113/020	J 1160	_{ ull 611	icnia								
Empty Kit Relinquished by	In a con-	Date		0	Time								Metho	of Ship	nent.				Company	
Olivia Shively	Date/Time	3 12	po	AECOM		Ž.	ceived	2/	B	In	102	<u>d</u>		Date	773	1/2	3	1200	Company Company	1
Relinguished by Edmord	5/13/3	21	300	Company FIE CV	pany Received by Date/Time Comp															
Relinquished by	Date/Time ⁻	-		Company						Company										
Custody Seals Intact. <u>A</u> Yes <u>A</u> No						Co	oler (e	mperat	ure(s)	°C and	Other	Remar	ks			4	3.1	12.9	Ver [.] 01/16/2	010

Client: AECOM Job Number: 580-127342-1

Login Number: 127342
List Source: Eurofins Savannah
List Number: 2
List Creation: 05/18/23 04:15 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	
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	

N/A

Eurofins Seattle

Residual Chlorine Checked.