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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/13/2023 9:50:11 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-125690-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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

Laboratory Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125690-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125690-1

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

Four samples were received on 4/6/2023 1:50 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 was 5.3° 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-2304W1 (580-125690-1), AF-HDMW225303-WGN01LF-2304W1 (580-125690-2), AF-RHMW10-WGN01LF-2304W1 (580-125690-3) and AF-RHMW10-WGFD01LF-2304W1 (580-125690-4) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/12/2023.

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: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 U
 Undetected at the Limit of Detection.

Glossary

DLC

Ciocoary	
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

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4/13/2023

Page 5 of 27

Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W1 Lab Sample ID: 580-125690-1

Date Collected: 04/05/23 09:00 Matrix: Water

Date Received: 04/06/23 13:50

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			04/12/23 04:53	1	

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Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2304W1 Lab Sample ID: 580-125690-2

Date Collected: 04/04/23 10:15 Matrix: Water

Date Received: 04/06/23 13:50

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

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U.M	5.0	1 1 mg/l			04/12/23 05:17	1

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Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2304W1 Lab Sample ID: 580-125690-3

Date Collected: 04/04/23 13:00 Matrix: Water

Date Received: 04/06/23 13:50

Analyte	Result	Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	IIM	5.0	1.1 mg/l			04/12/23 05:40	1

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Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGFD01LF-2304W1 Lab Sample ID: 580-125690-4

Date Collected: 04/04/23 13:00 Matrix: Water

Date Received: 04/06/23 13:50

Analyte	Result Qualifie	er LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			04/12/23 06:03	1

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Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-772684/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 772684

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte Prepared 3.0 U M 5.0 1.1 mg/L 04/11/23 16:23 2-(2-Butoxyethoxy)ethanol

Lab Sample ID: LCS 680-772684/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 772684

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 18.0 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 90

Lab Sample ID: LCSD 680-772684/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 772684

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: 580-125690-3 MS Client Sample ID: AF-RHMW10-WGN01LF-2304W1 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 772684

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 17.1 mg/L 85 50 - 150

Lab Sample ID: 580-125690-3 MSD

Matrix: Water

Analysis Batch: 772684

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 18.7 93 50 mg/L 50 - 150 9

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Prep Type: Total/NA

Client Sample ID: AF-RHMW10-WGN01LF-2304W1

Lab Chronicle

Client: AECOM Job ID: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W1

Lab Sample ID: 580-125690-1 Date Collected: 04/05/23 09:00

Matrix: Water

Date Received: 04/06/23 13:50

Batch Dilution Batch Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab Total/NA Analysis 8015C GLY JCK EET SAV 04/12/23 04:53 772684

Client Sample ID: AF-HDMW225303-WGN01LF-2304W1

Lab Sample ID: 580-125690-2

Matrix: Water

Date Collected: 04/04/23 10:15 Date Received: 04/06/23 13:50

Batch **Batch** Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 772684 JCK EET SAV 04/12/23 05:17

Client Sample ID: AF-RHMW10-WGN01LF-2304W1 Lab Sample ID: 580-125690-3 Date Collected: 04/04/23 13:00 **Matrix: Water**

Date Received: 04/06/23 13:50

Batch **Batch** Dilution Batch **Prepared** or Analyzed **Prep Type** Method **Factor Number Analyst** Type Run Lab 04/12/23 05:40 EET SAV Total/NA Analysis 8015C GLY 772684 JCK

Client Sample ID: AF-RHMW10-WGFD01LF-2304W1 Lab Sample ID: 580-125690-4

Date Collected: 04/04/23 13:00 **Matrix: Water**

Date Received: 04/06/23 13:50

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run Factor **Number Analyst** or Analyzed Type Lab Analysis 8015C GLY 772684 JCK EET SAV 04/12/23 06:03 Total/NA

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: 580-125690-1

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: 580-125690-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-125690-1	AF-RHMW225401-WGN01B-2304W1	Water	04/05/23 09:00	04/06/23 13:50
580-125690-2	AF-HDMW225303-WGN01LF-2304W1	Water	04/04/23 10:15	04/06/23 13:50
580-125690-3	AF-RHMW10-WGN01LF-2304W1	Water	04/04/23 13:00	04/06/23 13:50
580-125690-4	AF-RHMW10-WGFD01LF-2304W1	Water	04/04/23 13:00	04/06/23 13:50

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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing

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808-954-4512 / 770-331-0794					ĝ		0 X		1									100		G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
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4/13/2023

Chain of Custody Record

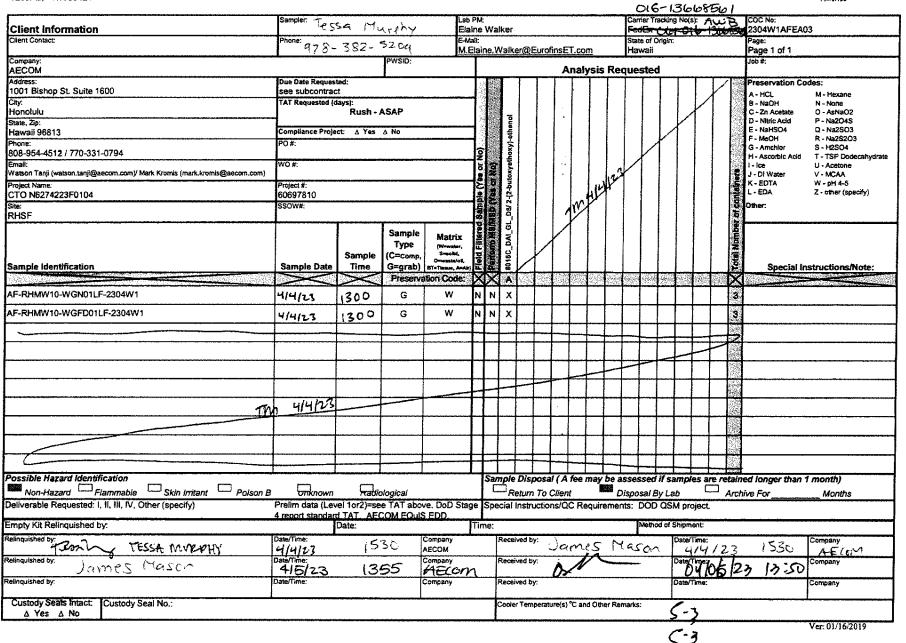
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Hawaii 96813 Phone:	Compliance Proj	ect: A Yes	A No			į									1				E - NaHSO4 F - MeOH	Q - Na2SQ3 R - Na2S2Q3
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RHSF					18	5				W								5		
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Chain of Custody Record

🔆 eurofins

Environment Testing America



5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing

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Client Contact:	Phone: 704-	673-09	52%		Mail:	. 147-11						- 1	State o	of Origi	n:	JEG	503	<u>, </u>	Page:	
Company:			IPWSID:	IM.	.Elain	e.Wall	Kerla	Euror	INSE	.con	<u>n</u>	<u></u>	Hawa	ilt					Page 1 of 1	
AECOM									A	naly	sis I	Req	uest	ed					Job#:	
Address: 1001 Bishop St. Suite 1600	Due Date Reques see subcontrac				150		T	T	T				П		Т	Τ	Т	20	Preservation Co.	ies:
City:	TAT Requested (c				-		İ						- 1	- 1		ı	1	28	A - HCL	M - Hexane
Honolulu	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rush - /	ASAP		2								- 1			-			B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip. Hawaii 96813					_ 3	8						L		1					D - Nitric Acid	P - Na2O4S
Phone:	Compliance Proje	CC A Yes	∆ No		_	1						-1						1410	E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
808-9 54-4 512 / 770-331-0794	FO #:				Ξ	Ž		1											G - Amchior	S - H2SO4
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:				18	2 8													H - Ascorbic Acid I - Ice	T - TSP Dodecahydrate U - Acetone
Project Name:	Project #:			***************************************	⊣ §I	5 3					- 1							3	J - DI Water K - EDTA	V - MCAA W - pH 4-5
CTO N6274223F0104	60697810					3						- 1			1			2	L - EDA	Z - other (specify)
Site: RHSF	SSOW#:			***************************************	Field Fillered Sample (Yes or No	DS/ 2-42-butoxyethoxy)-ethanof					$ \downarrow $			1				Total Number of containers	Other:	
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			Sample Type	Matrix		₹	'				ı		- -	7	\downarrow		-	Ė		
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Sample Identification	Sample Date	Time	G=grab)	Omestaleii, BY=Ytssus, Anai	, E	8015C					l	-			1			ā	Spacial Inc	structions/Note:
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Possible Hazard Identification					s	ample	Disp	osal	(Af	ee m	ay be	ass	esse	d if s	amp	les a	re rei	aine	d longer than 1	month)
Non-Hazard Flammable Skin Irritant Poison B	Unknown	rradio	logical		- 1	~ R	eturn	To C	lient		938	Dis	oosal	Rv I	ah	Ĺ		\rchi	ve For	Months
Peliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Levi	el 1or2)=sec	TAT abov	e. DoD Sta	ge S	pecial	Instru	ction	s/QC	Req	uiren	ents	: DO	D QS	M pi	oject	: -			
mpty Kit Relinquished by:	4 report standard	Tate:	OMEQUIS		Time	:			*********	··			Met	hod af	Shipp	nent:				
elinquished by:	Date/Time:/		10	Company			ived by	,-									······································			
elinguished by:	Date/Time: 4/2/23	121	0 /	AECOM		1	Nico	inc	da	Ī	رج	52		لنصص	4	5	23		1210	AECON
Miranda DeGarmo	1/5/23	135	5	AFWY	ΛΛ	Rece	ived by	· A	_1			-			Date	Time:	10	٦,,	17:50	ompany
elinquished by:	Date/Time:		- - to	Company		Rece	ived by	U	_						Date	Time:	19	11		Company
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Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			.,			Coole	r Temç	eratur	re(s) °(and (Other	₹emai	ks:		ζ,	ス			L	
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			B B B 41 1 # B B 4	FRESH FRENCH STATE	PROPERTY OF THE PARTY.	BAR EL B													,	



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4/13/2023

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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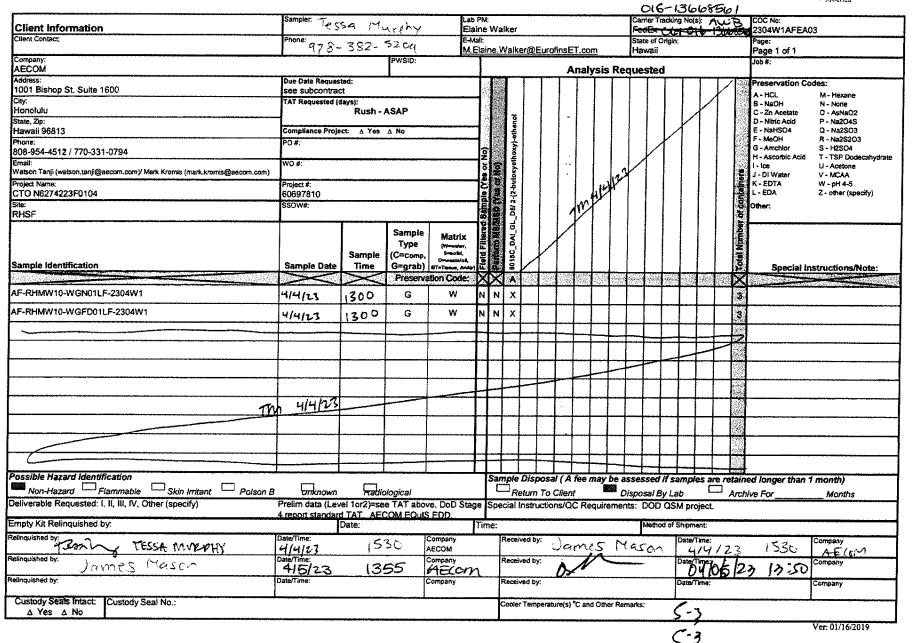
Environm. America

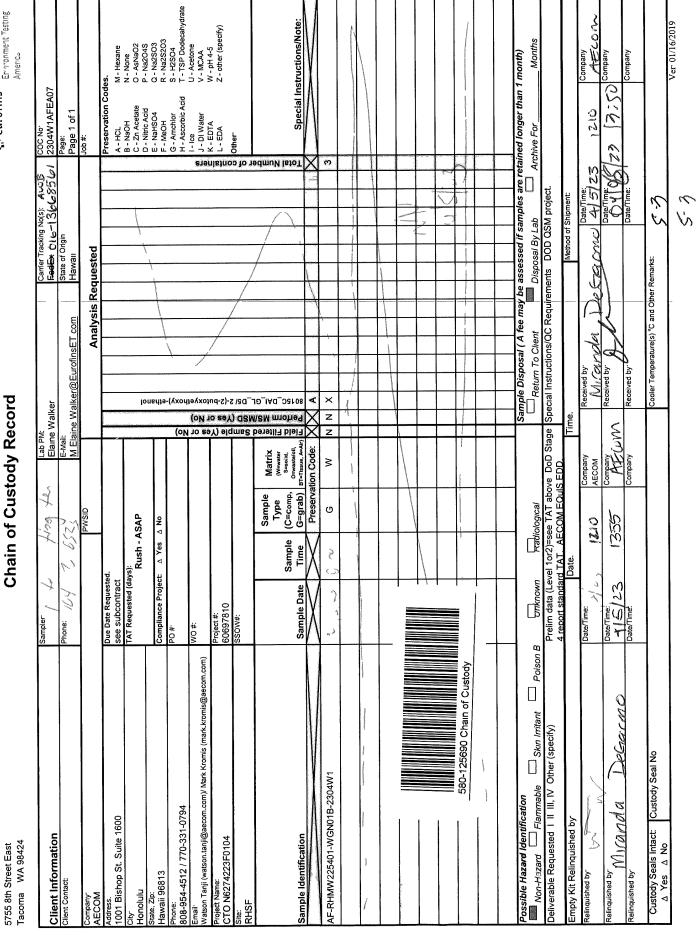
Client Information	Sampler: TESSA Phone:	MURP	HY		PM: ine V	Valke						G	amer	Trackli	ng No	(s): /	wi	3	COC No: 2304W1AFEA0	04
Client Contact	Phone: 93-3	582-52	ρ 9	E-M		e.Wall	er@l	Furni	insFT			15	tate o	Origin	:		EVO		Page:	
Company: AECOM	1 1 7 1	222.7.	PWSID:		T	J. 41 GII	101(02)	<u> Ur Or</u>					*******						Page 1 of 1 Job #:	
Address:	Due Date Reque		<u> </u>				1		AI	aly	SIS	Requ	est	ea		-	1 .	2833	Preservation Co	Mee.
1001 Bishop St. Suite 1600 City:	See subcontra TAT Requested (-13											١,			A - HCL	M - Hexane
Honolulu State, Zip:		Rush -	ASAP			1.						ı	ļ		Ι.	Y			B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, 2p: Hawaii 96813	Compilance Proje	ect A Yes	ΔNo			hano				ı					otag				D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO#:				IJ	į	:						1	\times					F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4
Email:	WO #:				뵎	e e				ı			X						H - Ascorbic Acid	T - TSP Dodecahydrai
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name:						ğ					l.	de							J - Di Water	U - Acetone V - MCAA
CTO N6274223F0104	Project #: 60697810				٥	ź				- 1	الد								K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:				Sample (Yes or No)	ISSE (YALL OF PRO) D5/ 2-(2-butoxyethoxy)-ethanol				(12)								8	Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Www.ter, Secold, Owneste/oil STeTissus, Andr)	leid Filtered	B016C_DAL_GL												Total Number	Para del In	
				ation Code:	团	7		183				13 TA	+					귓	Special In	structions/Note:
AF-HDMW225303-WGN01LF-2304W1	4/4/23	1015	G	w	N	N X							21512		(0.000	26.70.00	2.7161	3	VII. 1	
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Possible Hazard Identification					1		Ofee											ê		
Non-Hazard Flammable Skin Irritant Poison B	unknown	radio	looical		"	□ _R	uisp eturn	To C	(A R liant	e m		Disp	:55ec	1 IT SE	nnpi L	es an	e reta	iine 	d longer than 1 ve For	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	el 1or2)=se	TAT abov	e. DoD Stag	e Sp	ecial	nstru	ction	s/QC	Req	uirem	ents:	DO	O QSI	vi pro	ject.	A	CHIV	e ror	Months
mpty Kit Relinguished by:	4 report standard	<u>LTAT. AEC</u> Date:	OM EQuIS	EDD.	l Time:									ad of S						
cellinquished by Tessa Mivepity	Date/Time:		- I	Company			ved by:	: \					<u> </u>		Date/T					Сотралу
telinquished by:	4/4/23	153		ЕСОМ				<u></u>	av	کع		2 ما	0/	`		4/	12	3	1530	AE COM
James Mason	Date/Time: 4(5/23	13	55	AECO/	n	Kecei	ved by:				····			- [) ((110	El	22	13:50	Company
elinquished by:	Date/Time:		l c	Company		Recei	ved by:								ate/T	me:	Ф Г.			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			<u></u>			Coole	Temp	eratun	e(s) "C	and (Other F	Remark	s:			7		·····		
···															5	ナ ?			,	Ver: 01/16/2019

Chain of Custody Record

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Environment Testing America





Erryronment Testing

💸 eurofins

Eurofins FGS, Seattle

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N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate Special Instructions/Note: 5 Ver 01/16/2019 Z - other (specify) U - Acetone V - MCAA W - pH 4-5 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Company reservation Codes. COC No: 2304W1AFEA04 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NanSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 188 I - Ice J - DI Water K - EDTA L - EDA Page: Page 1 of 1 Job #: 25/20 M Carrier Trackling Note): AWB C
FodEx O 16-13 46 853.1 2
State of Origin
Hawaii Total Number of containers က Date/Time: 5 **Analysis Requested** ンハン Cooler Temperature(s) ^{DC} and Other Remarks: James Lab PM: Elaine Walker E-Mai: M Elaine Walker@EurofinsET com Return To Client Received by: Received by Received by 8012C_DAI_GL_D5/ 2-(2-bufoxyethoxy)-ethanol ×zz Perform MS/MSD (Yes or No) Company
AECOM
Company
AECOM
Company Field Filtered Sample (Yes or No) Sample Matrix
Type (wewater C=Comp, Castolia, G=grab) (ST=Steam, A=Ast)
Preservation Code: ≥ Sample Type (C=comp, G=grab) ഗ Kadiological 1355 TAT Requested (days):
Rush - ASAP 1536 Sampler TESSA MURRHY Phone 148-5 82-5709 Sample Time 22日 2 Due Date Requested: see subcontract Date/Time: - Dirknown Sample Date Date/Time: Project #: 60697810 SSOW#: 4/4/23 \$ Poison B Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant TESSA MURPHY Deliverable Requested 1 II, III, IV, Other (specify) 2017 Custody Seal No AF-HDMW225303-WGN01LF-2304W1 Non-Hazard Flammable ossible Hazard Identification イドとう 808-954-4512 / 770-331-0794 Relinquished by 1001 Bishop St. Suite 1600 Empty Kit Relinquished by Custody Seals Intact: △ Yes △ No Client Information Project Name: CTO N6274223F0104 Sample Identification State, Zip: Hawaii 96813 Relinquished by: elinquished by Client Contact City Honolulu AECOM

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Chain of Custody Record

Eurofins FGS, Seattle

5755 8th Street East Tacoma WA 98424

N - None
O - Ashao2
P - Na204S
G - Na204S
G - Na28203
S - H2S04
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - PH 4-5
Z - other (specify) Special Instructions/Note: A-E-Co. Company Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Company reservation Codes COC No: 2304W1AFEA03 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
I - Ice
A - D I Water
K - EDA N 55 Page 1 of 1 Job #: 2 Total Number of containers S. m Date/Time: 06 016-1366856 7/17 Prelim data (Level 10r2)=see TAT above DoD Stage Special Instructions/QC Requirements DOD QSM project. 4 report standard TAT. AECOM FOulS EDD. Date/Time: Date/Time: Method of Shipment: ~ Carrier Tracking No(s):
FedEx Col Col
State of Origin.
Hawaii V050 N **Analysis Requested** Cooler Temperature(s) °C and Other Remarks. Lab PM: Elaine Walker E-Mail. M Elaine Walker@EurofinsET com 2 2 Received by: Received by Received by: × × 8012C DALGL D5/ 2-(2-butoxyethoxy)-ethanol Perform MS/MSD (Yes or No) z Company
AECOM
Company
AECOM
Company Field Filtered Sample (Yes or No) z z Matrix
(W=water
S=solid,
O=waste/oil,
BT=Tissue, A=Alr) Preservation Code: ≥ ≷ Sample (C=comp, G=grab) Type ナイナ 27.00 Radiological ტ ტ 1355 WSID 530 TAT Requested (days):
Rush - ASAP Sompliance Project: A Yes A No 1300 Sample Time (300 285-860 25.4 Due Date Requested: see subcontract Thrown 是是 Date/Time: 415/23 Sample Date Date/Time: 4/4/23 4/4/23 Project #: 60697810 # O/ Poison B Lingii. Watson Tanji (watson.tanji@aecom com)/ Mark Kromis (mark.kromis@aecom.com) TESSA MAPPHY Skin Imitant Deliverable Requested 1 II III, IV Other (specify) MPS POSE Custody Seal No AF-RHMW10-WGFD01LF-2304W1 Flammable AF-RHMW10-WGN01LF-2304W1 Possible Hazard Identification Relinquished by 808-954-4512 / 770-331-0794 1001 Bishop St. Suite 1600 Empty Kit Relinquished by Custody Seals Intact: △ Yes △ No Client Information Project Name: CTO N6274223F0104 Sample Identification Non-Hazard State, Zip: Hawaıı 96813 Relinquished by-Relinquished by Client Contact Honolulu Company: AECOM RHSF

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Chain of Custody Record

Eurofins FGS, Seattle

Tacoma, WA 98424 5755 8th Street East

N - None
O - AANDO2
P - NA2C45
Q - NA2C9C3
R - NA2C5C03
S - H2SC4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - PH 4-5
Z - other (specify) Company Special Instructions/Note: Prelim data (Level 1or2)=see TAT above. DoD Stage | Special Instructions/QC Requirements | DOD QSM project. Preservation Codes 0,70 COC No: 2304W1AFEA07 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - ManSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page 1 of 1 Job #: . . . I - Ice J - DI Water K - EDTA L - EDA Total Number of containers Carrier Tracking No(s): イルボ FodEx ひしょー(3をとうじし State of Origin Hawaii Date/Time:
Date/Time:
Date/Time: 3 5 MARKE Analysis Requested Cooler Temperature(s) °C and Other Remarks. Lab PM: Elaine Walker E-Mail. M Elaine Walker@EurofinsET.cc Will Candia Received by: 0 Received by. × 8012C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol z erform MS/MSD (Yes or No) Company
AECOM
Company
AFFCOM
Company Field Filtered Sample (Yes or No) Z Matrix (W=water S=solid, O=wastefoll, BT=Tissue, A=Air) Preservation Code: ≷ 400-74. (C=comp, G=grab) Sample Type ტ 1355 FAT Requested (days):
Rush - ASAP 013 Compliance Project: △ Yes △ No 0 Sample Time 2 5 Due Date Requested see subcontract Date/Time: Sample Date かん Project #: 60697810 Date/Time: Phone: %0∦: 90 # Poison B nitan. Vatson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) 580-125690 Chain of Custody からのころ Skin Irritant Deliverable Requested | II III IV Other (specify) Custody Seals Intact: Custody Seal No. AF-RHMW225401-WGN01B-2304W1 Flammable ossible Hazard Identification Relinquished by MICANOLA 808-954-4512 / 770-331-0794 ddress. 1001 Bishop St. Suite 1600 Empty Kit Relinquished by Client Information Project Name: CTO N6274223F0104 Sample Identification Non-Hazard Hawaii 96813 finquished by: telinguished by Honolulu Company AECOM RHSF

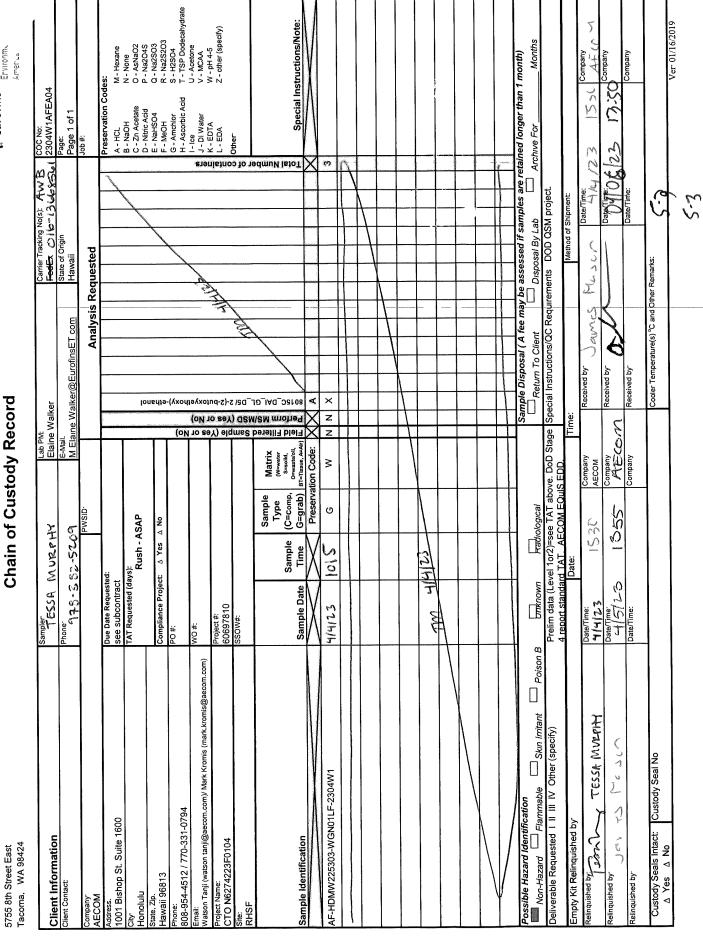
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5755 8th Street East Tacoma WA 98424



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Eurofins FGS, Seattle

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Š	ain of Cu	Chain of Custody Record	cord	Ö	018-136-6856-1	🔆 eurofins	En rorme +™as+ o Amerco
Client Information	Sampler + >54	ブム: Y		Walker		35	COC No: 2304W1AFEA03	
	Phone:	82-5206		E-Mail. M Elaine Walker@EurofinsET.com			Page: Page 1 of 1	
Company		PWSID		Ang	sis Rec		Job #:	
hop St. Suite 1600	Due Date Requested: see subcontract							is. M - Hexane
	TAT Requested (days) [.]). Rush - ASAP		ţc			B - NaOH C - Zn Acetate	N - None O - AsNaO2
	Compliance Project:	∆ Yes ∆ No		ousuje				P - Na2045 Q - Na2SO3 R - Na2S2O3
/ 770-331-0794	PO #:		(0)					S - H2SO4 T - TSP Dodecahydrate
om)/ Mark Kromis (mark.kromis@aecom.com)	:# OM			(on a	्र			U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810		X 910	o say			⊄ = ∢	w - pri 4-5 Z - other (specify)
	:#MOSS		6) asw		NAME OF TAXABLE PARTY.	Other	
		0	Matrix 6 (W=water LL S=solid, 0 O=waste/oil, 0	erform Ms/N		otal Numbe		
Sample Identification	Sample Date	Time G=grab)	BT=Tissue, A=Air)	ďХ		1	Special Ins	Special instructions/Note:
AF-RHMW10-WGN01LF-2304W1	4/4/23	300 6		×		n		
AF-RHMW10-WGFD01LF-2304W1		3008	3	×		en l		
						<u> </u>		
T	501H/h							
Possible Hazard Identification Mon-Hazard Clammable Skin Initant Doison B	THE	Radiological		Sample Disposal (Af	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mon	samples are retain	etained longer than 1 Archive For	month) Months
Other (specify)		Level 1or2)=see TAT above Do	above DoD Stage	Special Instructions/QC	Requirem			
Empty Kit Relinquished by	4 report standard TA	AL AECOMEN		Time:	Method	Method of Shipment:		
ZON TESSA MYRPHY	Date/Time: イイリンス	1530	Company AECOM	Received by:	0507 5200	Date/Time:	555	Company A-E-16,
MES (201)	Date/Time: 415/23	(355	Company ACCON	Received by:		90	02:41 62	Сотрапу
	Date/Time:		Company	Received by:		Date/Time:		Сотрапу
Custody Seals Infact: Custody Seal No				Cooler Temperature(s) °C and Other Remarks:	^a C and Other Remarks:	5-3		
						5.3		Ver 01/16/2019

Client: AECOM Job Number: 580-125690-1

Login Number: 125690 List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

Creator: Presiey, Kim A		
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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
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.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Eurofins Seattle

Client: AECOM Job Number: 580-125690-1

Login Number: 125690 List Source: Eurofins Savannah List Number: 2 List Creation: 04/08/23 02:53 PM

Creator: Johnson, Corey M

Creator. 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	