PREPARED FOR

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

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-125377-1

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: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125377-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125377-1

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 3/29/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° 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-RHMW02-WGN01LF-2303W3 (580-125377-1), AF-RHMW17-WGN01LF-2303W3 (580-125377-2), AF-RHMW17D-WGN01LF-2303W3 (580-125377-3), AF-RHMW17D-WQFB01-2303W3 (580-125377-4) and AF-RHMW03-WGN01LF-2303W3 (580-125377-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/04/2023 and 04/05/2023.

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: 580-125377-1

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

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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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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2303W3 Lab Sample ID: 580-125377-1

Date Collected: 03/23/23 10:50 Matrix: Water

Date Received: 03/29/23 10:30

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 IIM	5.0	1.1 ma/l			04/04/23 16:24		

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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2303W3 Lab Sample ID: 580-125377-2

Date Collected: 03/24/23 12:35

Date Received: 03/29/23 10:30

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

Analyte	Result Quali		DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			04/04/23 23:01	1

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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W3 Lab Sample ID: 580-125377-3

Date Collected: 03/24/23 11:10 East Campio 15: 600 12:0077 0

Date Received: 03/29/23 10:30

Analyte	Result Quali		DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0 U.M	5.0	1.1 mg/l			04/04/23 23:24	1	

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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2303W3 Lab Sample ID: 580-125377-4

Date Collected: 03/24/23 10:00 Matrix: Water

Date Received: 03/29/23 10:30

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

Analyte	Result Qualifi	er LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 IIM		1.1 mg/l			04/04/23 23:48	

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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2303W3 Lab Sample ID: 580-125377-5

Date Collected: 03/23/23 12:55 Matrix: Water

Date Received: 03/29/23 10:30

Analyte	Result	Qualifier	LOQ	DL U	nit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1 m	ıa/L			04/05/23 00:11	1	

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Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-771309/11 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 771309

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte D Prepared 3.0 U M 5.0 1.1 mg/L 04/04/23 15:14 2-(2-Butoxyethoxy)ethanol

Lab Sample ID: LCS 680-771309/5

Matrix: Water

Analysis Batch: 771309

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 50 - 150 2-(2-Butoxyethoxy)ethanol 20.6 mg/L 103

Lab Sample ID: LCSD 680-771309/6

Matrix: Water

Analysis Batch: 771309

Spike LCSD LCSD %Rec RPD RPD Added Result Qualifier Limits Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 22.0 50 - 150 mg/L

Lab Sample ID: 580-125377-1 MS

Matrix: Water

Analysis Batch: 771309

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 26.3 mg/L 132 50 - 150

Lab Sample ID: 580-125377-1 MSD

Matrix: Water

Analysis Batch: 771309

MSD MSD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 50 - 150 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 24.9 125 50 mg/L 5

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4/6/2023

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: AF-RHMW02-WGN01LF-2303W3

Client Sample ID: AF-RHMW02-WGN01LF-2303W3

Prep Type: Total/NA RPD

Job ID: 580-125377-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2303W3

Lab Sample ID: 580-125377-1 **Matrix: Water**

Date Collected: 03/23/23 10:50 Date Received: 03/29/23 10:30

Client: AECOM

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 04/04/23 16:24 Total/NA 8015C GLY 771309 JCK EET SAV Analysis

Client Sample ID: AF-RHMW17-WGN01LF-2303W3 Lab Sample ID: 580-125377-2

Date Collected: 03/24/23 12:35

Date Received: 03/29/23 10:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed 04/04/23 23:01 Total/NA Analysis 8015C GLY 771309 JCK EET SAV

Client Sample ID: AF-RHMW17D-WGN01LF-2303W3 Lab Sample ID: 580-125377-3

Date Collected: 03/24/23 11:10

Date Received: 03/29/23 10:30

Batch Batch Dilution Batch Prepared **Number Analyst** or Analyzed **Prep Type** Method **Factor** Type Run Lab 04/04/23 23:24 EET SAV Total/NA Analysis 8015C GLY 771309 JCK

Lab Sample ID: 580-125377-4

Client Sample ID: AF-RHMW17D-WQFB01-2303W3

Date Collected: 03/24/23 10:00 Date Received: 03/29/23 10:30

Batch Batch Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 771309 JCK EET SAV 04/04/23 23:48 Total/NA

Client Sample ID: AF-RHMW03-WGN01LF-2303W3 Lab Sample ID: 580-125377-5

Date Collected: 03/23/23 12:55

Date Received: 03/29/23 10:30

Batch Batch Dilution Batch Prepared Method Run Factor Number Analyst or Analyzed **Prep Type** Type Lab 04/05/23 00:11 Total/NA Analysis 8015C GLY 771309 JCK **EET SAV**

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: 580-125377-1

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		Program	Identification Number	Expiration Date		
ANAB		Dept. of Defense ELAP	L2463	09-22-24		
The following analyte the agency does not		port, 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			

Eurofins Seattle

Sample Summary

Client: AECOM Job ID: 580-125377-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
580-125377-1	AF-RHMW02-WGN01LF-2303W3	Water	03/23/23 10:50	03/29/23 10:30	
580-125377-2	AF-RHMW17-WGN01LF-2303W3	Water	03/24/23 12:35	03/29/23 10:30	
580-125377-3	AF-RHMW17D-WGN01LF-2303W3	Water	03/24/23 11:10	03/29/23 10:30	
580-125377-4	AF-RHMW17D-WQFB01-2303W3	Water	03/24/23 10:00	03/29/23 10:30	
580-125377-5	AF-RHMW03-WGN01LF-2303W3	Water	03/23/23 12:55	03/29/23 10:30	

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Chain of Custody Record

21	Sampler:	Y	ė		PM: Ine W:	alkar						Carrier FedE:	Trackin	g No(s):		COC No: 2303W3AFEA	01
Client Information Client Contact	Phone:	000000	<u> </u>	E-M		anei							Origin				Page:	<u> </u>
CHERCHIECE	402-8	571-571	2			.Walke	r@E	urofins	sET.co	<u>1710</u>		Hawa					Page 1 of 1	
Company: AECOM			PWSID:						Ana	lysis	Req	uest	ed				Job# 125	377
Address: 1001 Bishop St. Suite 1600	Due Date Request see subcontrac															7	Preservation C	odes: M - Hexane
City: Honolulu ~	TAT Requested (d:	ays): Rush - /	ASAP			-										7	B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Projec	it: A Yes	A No			ethan				į				K			D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO#:				≩	thoxy						*	4			3 4	G - Amchlor H - Ascorbic Acid	S - H2SD4 T - TSP Dodecahydrate
Email: Watson Tariji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:					utoxye				1,	LX		1			1	I - Ice J - DI Water K - EDTA	U - Acetone V - MCAA W - pH 4-5
Project Name: CTO N6274223F0104	Project #: 60697810 SSOW#:	;				ź			_	4		Y				100	L - EDA	Z - other (specify)
Site: RHSF	SSOVV#:					0.5			4	1/2	10					20	00.0.	
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unk	nown Radi	iologicar			S	ample □ _{Re}	Disp eturn	osal (To Cli	(A fee lient	may	be as Dis	sessi vosal	ed if s By La	ampi ıb	es are		ined longer than hive For	1 month) Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar	el 1or2)=se	e TAT abov	ve. DoD Sta					/QC R	equin	ment	s: DC	D QS	M pro	ject.		:	
Empty Kit Relinquished by:		Date:			Time	:						Me	thod of	Shipmi	erit:		(
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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: TESSP M	كالمناط عال			PM: aine \	Vaike	er						arrier 1 edEx	rackin	g No(s	s):			COC No: 2303W3AFEA1	0
Client Contact:	Phone: 9-356		····	E-1	/lail:		ker@	Furofi	ine FT	com		S	tate of	Ongin	;			******	Page: Page 1 of 1	
Company:	1 1737-236	- 3 CU :	PWSID:	122	T	<u> </u>					sis R			<u>.</u>			-		Job #:	
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1001 Bishop St. Sulte 1600	see subcontrac	t				N.S.	1										1/	100	A-HCL	M - Hexane
City: Honolulu	TAT Requested (d	ays): Rush - A	SAP				ē									/	Y		B - NaOH C - Zn Acetate D - Nitric Add	N - None O - AsNaO2 P - Na2O4S
State, Zip: Hawaii 96813	Compliance Proje	ct A Yes	∆ No		1		a a								١,				E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO#:				Q Q		lu oxò								\forall			60.78 20.78	G - Amchlor H - Ascorbic Acld	S - HZSO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:) .:		98 0	₽	e (xo						رل	1				810	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No.	7689	10.2					1	1					튙	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:				Sam	9	i i			1	7								Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Winester, 5-solid, Owwasteloli, BT=Thsum, A=A	Field Filtered	Parform MS/MSD	oviso_ovi_ovi_ovi_oviovyenoxyj-emanor											Fotal Number	Special In:	structions/Note:
	\mathcal{N}	\times		tion Code:	X	X.	۹.				ાઢાં જ					- 1237 E1		\mathbb{X}		
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Possible Hazard Identification					1	Samp	le Dis	posa	I(AI	fee m	ay be	ass	esse	l if s	ampl	es ar	re rei	taine	ed longer than 1	T I
Non-Hazard Flammable Skin Irritant Poison B. Deliverable Requested: I, II, III, IV, Other (specify)	Orrknown Prelim data (Lev		logical	ia DaD Ste	I		Retur						osal					rchi	ive For	Months
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Empty Kit Relinquished by:		Date:		A	Tim				,				Met	od of	Shipm			1		
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Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			ļ			Co	oler Ter	nperat	we(s) °	°C and	Other i	Remar	ks:			0	- 9	1/0	9- 5	Ver 01/16/2019

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Environment Testing

America

Chain of Custody Record

Eurofins FGS. Seattle

5755 8th Street East

Tacoma, WA 98424

Carrier Tracking No(s): 2303W3AFEA11 FedEx Elaine Walker Client Information State of Origin: Client Contact Page 1 of 1 M.Elaine.Walker@EurofinsET.com Company: AECOM **Analysis Requested** Preservation Codes: Due Date Requested: Address: M - Hexane 1001 Bishop St. Suite 1600 see subcontract B - NaOH N - None TAT Requested (days): C - Zn Acetate O - AsNaO2 Rush - ASAP Honolulu D - Nitric Acid P - Na204S State, Zip: E - NaHSO4 Q - Na2SO3 Compilance Project: A Yes A No F - MeOH R - Na2S2O3 Hawaii 96813 S - H2SO4 G - Amchior T - TSP Dodecahydrate H - Ascorbic Acid 808-954-4512 / 770-331-0794 U - Acetone I - Ice WO #: V - MCAA J - DI Water Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) W - pH 4-5 K - EDTA Project #: L - EDA Z - other (specify) 60697810 CTO N6274223F0104 Other: SSOW#: RHSF Sample Matrix Type (C=comp, Sample Special Instructions/Note: G=grab) at-Thous. A-V Time Sample Date Sample Identification Preservation Code: G N X AF-RHMW17D-WGN01LF-2303W3 1110 3 W N G AF-RHMW17D-WQFB01-2303W3 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Archive For_ Return To Client Disposal By Lab Non-Hezard Flammable Skin Imitant Poison B Unknown radiological Special Instructions/QC Requirements: DOD QSM project. Prelim data (Level 1or2)=see TAT above. DoD Stage Deliverable Requested: I, II, III, IV, Other (specify) 4 report standard TAT. AECOM EQUIS EDD. Date: Empty Kit Relinquished by: Company James Hason Actor 5/24/23 / 1355 AECOM Sompany WWW Pate/Time: Relinquished by: Cooler Temperature(s) °C and Other Remarks: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No Ver: 01/16/2019

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Awdu	n Com	4	Lab Ela	PM: ine Wa	alker						Fedi		king N	o(s):			2303W3AFEA0	2
Client Contact	Phone:	371-57	17	E-M	aii: :laine.\	Malka	··	cofine	CT ~	~m		State Haw		gin:				Page: Page 1 of 1	
Company:	700	J:1 -/ /	PWSID:	IN.C	Tane.	vvaike	nuzeu											Job #:	
AECOM					1 100		, , , , , , , , , , , , , , , , , , , 		Ana	lysis	Rec	ues	ted				Page	Preservation Co	dan-
Address: 1001 Bishop St. Suite 1600	Due Date Requests see subcontract															/	1	A - HCL B - NaOH	M - Hexane N - None
City: Honolulu	TAT Requested (da	rys): Rush - A	SAP			- I									X			C - Zn Acetate D - Nitric Acid	0 - AsNaO2 P - Na2O4S
State, Zip: Hawaii 96813	Compliance Projec	t Δ Yes	∆ No		1 📗	1							2	1				E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO #:				ĵ.	thoxy)						4	7					G - Amchlor H - Ascorbic Acid I - Ice	S - H2SO4 T - TSP Dodecahydrate U - Acetone
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				98 O.	utoxy					1						Hers	J - DI Water K - EDTA	V - MCAA W - pH 4-5
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No.	24.26				#	Vi	314	1				of contains	i EDA Other:	Z - other (specify)
Site: RHSF	SSOW#:	· · · · · · · · · · · · · · · · · · ·			Sar da	L DS/			ľ	11) `								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Www.ter, Smoold, Oww.esto/oll, ST=Theme, A+Air	Field Filtered Sample (Yes or Perform MSIMSD (Yes or Ne)	8015C_DAI_GL_DS/2-2-butoxyethoxy)-ethanol		1									Total Number	Special In	structions/Note:
		$>\!\!<$	Preserv	ation Code:	\mathbb{X}^{\times}	(A							755			lien (s. d.	\boxtimes		
AF-RHMW03-WGN01LF-2303W3	3/23/23	1255	G	w	ΝN	×			_				_		_	<u> </u>	3		
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					Ц		Dian	Ι,	<u></u>		60.3		sort i	f 5 3 7	Nec	200 /	otain	ed longer than	1 month)
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Poison B	on known	readic	ological		ı	\square_R	etum :	To Cli	ent	1	D	ispos	sa! 8)	/ Lab			Arch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar	el 1or2)=se	e TAT abo	ve. DoD Sta	ge Sp	ecial	Instruc	ctions	/QC I	Requir	emer	nts: C	OOD	QSM	proje	ct			
Empty Kit Relinquished by:	4 Tebou Standar	Date:	VAM COM	<u> </u>	Time							A	Aethod	of Sh	ipmen'	t;			
Refinquished by trong terms a fit	Date/Time: / 3/23/	1430		Company AECOM		Rece	ived by:	ر اوزان	Ton	njha	z ķ	1/2	D	1		23/	23	1430	Company AFCON-)
Relinguished by Forthany Tom Incz ha	Date/Time:		75	Company	MC		ived by			2		Q-4		Dg	3/2	27	/2:	3 1030	Company
Relinquished by:	Date/Time:			Company		Rece	ided by:	//	7					Da	it e Tin	ie: /			Company
Custody Seals Intact: Custody Seal No.:						Cook	er Temp	eleture	(s) °C	and Ot	her Re	marks:						0-4/0	. Ver 01/16/2019

N None
O AsNaO2
P Na2O45
Q Na2SO3
R Na2S2C03
S - H2SO4
T TSP Dodecalydrate
U Acetone
U Acetone
W pH 4-5
Z - other (specify) Special Instructions/Note. Months COC No: 2303W3AFEA01 A HCL
B NaOH
C Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Ó 1030 J-DI Water K EDTA L EDA S 150 580-125377 Chain of Custody 23/23 Total Number of containers State Ine. Unknown Radiologicard Preim data (Level 1or2)=see TAT above. DoD Stage | Special Instructions/QC Requirements DOD QSM project.

4 report standard TAT AECOM FOulS FDD. Carrier Tracking No(s): FedEx State of Origin: Hawaii Analysis Requested Cooler Temperature(s) °C and Other Remarks 51115 Lab PM Elaine Walker E-Mail M Elaine Walker@EurofinsET com 8012C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol z Perform MS/MSD (Yes or No) Company
AECOM
Company
Company z Sample Matrix
Type (W-water i S-sould, C-Comp, S-sould, G-grab) BIE-Tissue, A-Abr II Preservation Code: ≷ Sample Due Date Requested see subcontract TAT Requested (days): Rush - ASAP ტ 5 2001 3 Sample Time Compliance Project: PO #: Sampler shone: Sample Date Date/Time:

\$ 25 / 25

Date/Time: 8 Project #: 60697810 SSOW#: 3 # O/ Poison B nerson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant Non-Hazard — Flammable — Skin Irrit Deliverable Requested IIIII IV Other (specify) Custody Seal No elinquished by Brth my Tamille 2 AF-RHMW02-WGN01LF-2303W3 きてい ひるよ ssible Hazard Identification 308-954-4512 / 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 Hawaii 96813 elinquished by Slient Contact: Company Honolulu

En ronme, L'esting

🕏 eurofins

Chain of Custody Record

Eurofins FGS, Seattle

Tacoma WA 98424 5755 8th Street East

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chain	Chain of Custody Record	ody Re	cord				💸 eurofins	E. Ton Len Tes e merca
Client Information	Sampler from 10 w	5	Lab PM: Elaine	Walker	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx		COC No: 2303W3AFEA11	
Client Contact:	Phone: 4.2 % - 5	25	E-Mail: M Elan	ne Walke	er@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Сопралу АЕСОМ		PWSID:			Analysis Requested	equested		Job #:	
Address. 1001 Bishop St. Suite 1600	Due Date Requested see subcontract							Preservation Codes:	les: M - Hexane
City Honolulu	TAT Requested (days): Rush - ASAP	ASAP		lo		1		B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zp Hawaii 96813	Compliance Project: A Yes	ON A		ethan		A		E - NaHSO4	7 - Na2045 Q - Na2SO3 D - Na2SO3
/ 770-331-0794	PO #:		(0)			7		G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:		10 86	(oN 1		Ţ,		I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810		y) eld	o say	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		nistro	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#		mes) asv	7	3	oo to 1	Other	
	Sample	Sample Type (C=comp,	Matrix (W=water S=solid,	n orm MS/ sc_pal_eL			edmuh (s)		
Sample Identification	Sample Date Time		Ē	9d)			oT)	Special In	Special Instructions/Note:
AF-RHMW17D-WGN01LF-2303W3	VII) 2// FC/>	G W	× ×	∢ × ✓ z			3		
AF-RHMW17D-WQFB01-2303W3	(2) 70	9	Z	z			80		
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Possible Hazard Identification		iological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Mon	e assessed if sa Disposal By La	mples are retair b Arci	etained longer than Archive For	1 month) Months
	Prelim data (Le	vel 1or2)=see TAT above Dol	DoD Stage	Specia	Special Instructions/QC Requirements DOD QSM project.	nents DOD QSI			
Empty Kit Relinquished by				Time.		Method of Shipment:	hipment:		
Ander Towns aget &	Date/Time 5/24/23 / 1355		Company AECOM		Received by:	145. V	N	\$ (355	Company A Co 1
745 4 5 7	Date/Time:	5 43	Company	And the State of t	Received by		Date Time: Date.	2 1030	
	Date/Time:	Ō	Company	Rec	Received by:		Date/Time: (Company
Custody Seals Intact Custody Seal No ∆ Yes ∆ No				S	Cooler Temperature(s) °C and Other Remarks:	r Remarks:	0//0	J-6	
							7,	ŀ	Ver 01/16/2019

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M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2S23
R - Na2S23
S - H2SO4
T - TSP Dodecahydrate
U - Acetione
V - MCAA
W - PH 4-5
Z - other (specify) Special Instructions/Noter Company A Ex Ch Months | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | Prelim data (Level 1or2)=see TAT above DoD Stage | Special Instructions/QC Requirements | DOD QSM project. | Archive For | Month | Company Preservation Codes COC No: 2303W3AFEA10 V A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NanSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid S Page: Page 1 of 1 Job #: I - Ice J - DI Water K - EDTA L - EDA 9 Total Number of containers Carrier Tracking No(s): FedEx State of Origin Hawaii 12/2/2 **Analysis Requested** Cooler Temperathe(s) °C and Other Remarks: S. S. S. Lab PM: Elaine Walker E-Mail M Elaine Walker@EurofinsET com Received by: Received by: z Perform MS/MSD (Yes or No) Company
AECOM
Company
Company Field Filtered Sample (Yes or No) Matrix (W=water S=solid, O=waste/oll, BT=Tissue, A=Air) Preservation Code. ≥ (C=comp, G=grab) Sample Type ტ Rush - ASAP 3 Phone: Sample Time TESSA PROBLEM 1355 5821 Due Date Requested see subcontract TAT Requested (days): Compliance Project: PO #: Date/Time: S/14/13
Date/Time: 7-3 Sample Date ~3 6-3 Project #: 60697810 SSOW#: 57.50 Poison B nom... Natson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) TESSA MURPHA Skin Irritant Deliverable Requested | II III IV Other (specify) Custody Seals Intact: Custody Seal No △ Yes △ No ر بر Flammable 4F-RHMW17-WGN01LF-2303W3 Possible Hazard Identification ハンシャフ Relinquished by Tearly Phone: 308-954-4512 / 770-331-0794 1001 Bishop St. Suite 1600 Empty Kit Relinquished by Client Information Sample Identification Project Name: CTO N6274223F0104 Non-Hazard **Hawaii** 96813 Relinquished by-Relinquished by ient Contact Honolulu AECOM

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💸 eurofins

Chain of Custody Record

Eurofins FGS, Seattle

5755 8th Street East Tacoma WA 98424

Dolinouishod hvr		Date/Time:	Ö	ompany	Received by:		Date/Tithe:	Company
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Relinquished by:		Date/Time:	Ö	Сотрапу	Received by:		Dat#Time /	Сотрапу
Custody Seals Intact: 0 Δ Yes Δ No	Custody Seal No				Cooler Tempeleture(s) °C and Other Remarks:	: and Other Remarks:	6-0/6-0	6.
							2	Ver 01/16/2019

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Ö	Chain of Custody Record	Custo	ody Re	cord				ٽ ر "ٽ	💸 eurofins	Ervionme. Testine AMetica
Client Information	F	13000		Lab PM: Elaine Walker	Nalker		Carrier Tracking No(s): FedEx	ing No(s):	2303 2303	COC No: 2303W3AFEA02 Page:	2
Client Contact:	Fuone: 40c S	1(-)1		M Elain	e Walker	E-Mail M Elaine Walker@EurofinsET com			P. a.	Page 1 of 1	
Company: AECOM			PWSID			Analy	Analysis Requested		Job #:	#:	
Address: 1001 Bishop St. Suite 1600	Due Date Requested. see subcontract	ä.							P. A	Preservation Codes. A - HCL M	des. M - Hexane
City Honolulu	TAT Requested (day	/s): Rush - ASAP	م		lo				က်ပဲင	B - NaOH C - Zn Acetate	N - None O - AsNaO2 D - N22048
State, Zip Hawaii 96813	Compliance Project:	∴ ∆ Yes ∆ No			onsdia					Name Acid	7 - Nazo43 Q - NazSO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO #:			(ON			Z		Lot	Amchlor Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)				10 89	(0N 1		X X			I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810			Y) əlc	o sey				AV-1011177A	K-EDIA L-EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:			meS) asv				o to 1 Other	er.	
		d)		Matrix (W=water K-1 K-	eriorm MS/ Jac_DAI_GI		MAN 10 m 10 m 20 m 20 m 20 m 20 m 20 m 20 m		edmuN isto	·	
Sample Identification	Sample Date	e la	G=grab) BT=Tissue, A=A Preservation Code:	3	4				1	Special II	Special instructions/Note:
AF-RHMW03-WGN01LF-2303W3	372.5	12.55	ŋ	<u>Z</u> }	z				<u>ب</u>		
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					Sample	le Disposal (A fee	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	f samples are	retained long	longer than	1 month)
ille au	Prelim data (Le	el 1or2)=see T	AT above	DoD Stage	Special	Instructions/QC R	Special Instructions/QC Requirements DOD QSM project.	QSM project.		5	
Empty Kit Relinquished by	4 report standard	Date.	MEGUISE	Γ	Time		Method	Method of Shipment:			
Reinquished by June States	Date(Time: 5, 23, 25/	35	Cor	Company AECOM	Rece	Received by:	Commo of the contract of the c	Date/Time:	57)	1430	Company Afron
Relinquished by Port Town Inc. Pro Donate Pr	Date/Time:	7	5 5	Company		Received by:		Date/Time:	1/23	401	Company
Г	Date,		3	iipaii)						- 1	
Custody seals mact: Custody seal No △ Yes △ No					8	r rempereure(s) Ca	d Other Kemarks.		0	2	Ver 01/16/2019

Client: AECOM Job Number: 580-125377-1

Login Number: 125377
List Source: Eurofins Savannah
List Number: 2
List Creation: 03/31/23 07:08 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	
s the Field Sampler's name present on COC?	N/A	
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	