

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 2/22/2023 2:47:35 PM

# JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

## **JOB NUMBER**

580-123620-2

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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#### Job ID: 580-123620-2

#### Laboratory: Eurofins Seattle

#### Narrative

#### CASE NARRATIVE Client: AECOM Project: Red Hill - AFFF Assessment Sampling Report Number: 580-123620-2

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**

The samples were received on 02/15/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 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-RHMW17D-WGN01LF-2302W1 (580-123620-3), AF-RHMW17D-WQFB01-2302W1 (580-123620-4), AF-RHMW225401-WGN01B-2302W1 (580-123620-5) and AF-RHMW17-WGN01LF-2302W1 (580-123620-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/21/2023.

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

## **Definitions/Glossary**

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

Job ID: 580-123620-2

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### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
Μ	Manual integrated compound.
U	Undetected at the Limit of Detection.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

#### Client Sample ID: AF-RHMW17D-WGN01LF-2302W1 Lab Sample ID: 580-123620-3 Date Collected: 02/10/23 12:15 Matrix: Water Date Received: 02/15/23 11:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 U M 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 02/21/23 01:22 1

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Job ID: 580-123620-2

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Dil Fac

1

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

#### Client Sample ID: AF-RHMW17D-WQFB01-2302W1 Lab Sample ID: 580-123620-4 Date Collected: 02/10/23 11:30 Matrix: Water Date Received: 02/15/23 11:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed 3.0 U 02/21/23 01:45 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L

Job ID: 580-123620-2

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

#### Client Sample ID: AF-RHMW225401-WGN01B-2302W1 Lab Sample ID: 580-123620-5 Date Collected: 02/10/23 08:55 Matrix: Water Date Received: 02/15/23 11:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 U M 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 02/21/23 02:08 1

Job ID: 580-123620-2

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

#### Client Sample ID: AF-RHMW17-WGN01LF-2302W1 Lab Sample ID: 580-123620-6 Date Collected: 02/10/23 11:00 Matrix: Water Date Received: 02/15/23 11:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 U 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 02/21/23 02:32 1

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## **QC Sample Results**

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

Job ID: 580-123620-2

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

Lab Sample ID: MB 680-764187/14 Matrix: Water									CI	lient Sa	ample ID: Prep	Method Type: To	
Analysis Batch: 764187	МВ	MB											
Analyte	Result	Qualifier		LOQ		DL U	Jnit		D	Prepare	d Ana	alyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UM		5.0		1.1 n	ng/L				02/20/	23 23:25	1
Lab Sample ID: LCS 680-764187/10 Matrix: Water Analysis Batch: 764187	D							Clie	ent S	ample	ID: Lab C Prep	ontrol S Type: To	
			Spike		LCS	LCS					%Rec		
Analyte			Added		Result	Qualif	ier	Unit	[	D %Re	c Limits		
2-(2-Butoxyethoxy)ethanol			20.0		23.6			mg/L		118	8 50 - 15	0	
Lab Sample ID: LCSD 680-764187/	11						С	lient S	ampl	e ID: L	ab Contro	ol Samp	le Dup
Matrix: Water											Prep	Type: To	tal/NA
Analysis Batch: 764187													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualif	ier	Unit	[	D %Re	c Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol			20.0		24.5			mg/L		12	2 50 - 15	0 4	50

Client Sam Date Collecte Date Receive	d: 02/10/23 1		VGN01LF	-2302W1			Lab	Sample ID:	580-123620-3 Matrix: Water
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8015C GLY		1	764187	JCK	EET SAV	02/21/23 01:22	
Client Sam	ple ID: AF-	RHMW17D-W	VQFB01-	2302W1			Lab	Sample ID:	580-123620-4
Date Collecte Date Receive									Matrix: Wate
-	Batch	Batch		Dilution	Batch			Prepared	
Dron Tuno	_	<b>NI</b> - 411	D	Factor	Numbor	Analyst	Lab	or Analyzed	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	of Analyzeu	
Total/NA	Analysis	8015C GLY	Kun		764187		EET SAV	02/21/23 01:45	
Total/NA	Analysis	8015C GLY		1	764187		EET SAV	02/21/23 01:45	580-123620-5
Total/NA	Analysis ple ID: AF- d: 02/10/23 0	8015C GLY RHMW22540 8:55		1	764187		EET SAV	02/21/23 01:45	
Total/NA Client Sam	Analysis ple ID: AF- d: 02/10/23 0	8015C GLY RHMW22540 8:55		1	764187		EET SAV	02/21/23 01:45	
Total/NA Client Sam	Analysis ple ID: AF- d: 02/10/23 0 d: 02/15/23 1	8015C GLY RHMW22540 8:55 1:00		1B-2302V	764187 V1 Batch		EET SAV	02/21/23 01:45	580-123620-5 Matrix: Water
Total/NA Client Sam Date Collecte Date Received	Analysis ple ID: AF- d: 02/10/23 0 d: 02/15/23 1 Batch	8015C GLY RHMW22540 8:55 1:00 Batch	1-WGN0	1 1B-2302V Dilution	764187 V1 Batch	JCK	EET SAV	O2/21/23 01:45	
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA Client Sam Date Collecte	Analysis ple ID: AF- d: 02/10/23 0 d: 02/15/23 1 Batch Type Analysis ple ID: AF- d: 02/10/23 1	8015C GLY RHMW22540 8:55 1:00 Batch Method 8015C GLY RHMW17-WC 1:00	1-WGN0	1 1B-2302V Dilution <u>Factor</u> 1	764187 V1 Batch Number	JCK	EET SAV Lab Lab EET SAV	O2/21/23 01:45           Sample ID:           Prepared           or Analyzed           02/21/23 02:08	Matrix: Wate
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA	Analysis ple ID: AF- d: 02/10/23 0 d: 02/15/23 1 Batch Type Analysis ple ID: AF- d: 02/10/23 1 d: 02/15/23 1	8015C GLY RHMW22540 8:55 1:00 Batch Method 8015C GLY RHMW17-WC 1:00 1:00	1-WGN0	1 1B-2302V Dilution Factor 1 2302W1	764187 V1 Batch <u>Number</u> 764187	JCK	EET SAV Lab Lab EET SAV	O2/21/23 01:45           Sample ID:           Prepared           or Analyzed           02/21/23 02:08           Sample ID:	Matrix: Water
Total/NA Client Sam Date Collecte Date Received Prep Type Total/NA Client Sam Date Collecte	Analysis ple ID: AF- d: 02/10/23 0 d: 02/15/23 1 Batch Type Analysis ple ID: AF- d: 02/10/23 1	8015C GLY RHMW22540 8:55 1:00 Batch Method 8015C GLY RHMW17-WC 1:00	1-WGN0	1 1B-2302V Dilution <u>Factor</u> 1	764187 V1 Batch Number 764187 Batch	JCK	EET SAV Lab Lab EET SAV	O2/21/23 01:45           Sample ID:           Prepared           or Analyzed           02/21/23 02:08	

Lab Chronicle

Client: AECOM

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

2/22/2023

Job ID: 580-123620-2

## Accreditation/Certification Summary

Client: AECOM 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	Program Dept. of Defense ELAP	L2463	Expiration Date 09-22-24
The following analytes are inc the agency does not offer cer	luded in this report, but the laboratory is not ce ification.	ertified 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 Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123620-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123620-3	AF-RHMW17D-WGN01LF-2302W1	Water	02/10/23 12:15	02/15/23 11:00
580-123620-4	AF-RHMW17D-WQFB01-2302W1	Water	02/10/23 11:30	02/15/23 11:00
580-123620-5	AF-RHMW225401-WGN01B-2302W1	Water	02/10/23 08:55	02/15/23 11:00
580-123620-6	AF-RHMW17-WGN01LF-2302W1	Water	02/10/23 11:00	02/15/23 11:00

**Chain of Custody Record** 

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Client Information	F	JENER		Lab PM: Elaine Walker	lker			cing No(s):	COC No: 2302W	COC No: 2302W1AFEA11	
	Phone: 781 - 366	124-0	c	E-Mail: M.Elaine./	Valker@E	E-Mail: M.Elaine.Walker@EurofinsET.com	Btate of Origin: Hawaii	in:	Page: Page	Page: Page 1 of 1	
Company: AECOM		PWSID:	SID:			Ana	sis Req		Job #:		
hop St. Suite 1600	Due Date Requested: see subcontract								Prese	Preservation Codes A - HCL M	ss: M - Hexane
	TAT Requested (days) F	s): Rush - ASAP	٩		lo					B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Project:	ΔYes ΔNo	0		onertie				E - NaHSC		r - nazu45 Q - Na2SO3 R - Na2S2O3
/ 770-331-0794	PO#:			(o)	-(Λχοι				. 0 H	or vic Acid	S - H2SO4 T - TSP Dodecahydrate
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	.# OM						r r				U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810						200-1	~		<u>م</u>	W - pH 4-5 Z - other (specify)
	SSOW#:						2		r of co	Ľ	
		Sample Time	Type Ma (C=comp, See G=orab) Prenewa	Mattrix Mattrix (Winwater, S=solid, Oematodin, Defform MS/ Hertness, Aahin Lie ofform MS/		$\overline{\langle}$			edmuN løjoT	Special Ins	Special Instructions/Note:
		$\overline{1}$	Preservation Code:	X					X		
AF-RHMW17D-WGN01LF-2302W1	2/10/23 /	215	۔ ں	N N	×				ю		
AF-RHMW17D-WQFB01-2302W1	2/10/23 1	1130	໌ ບ	N N	×				ю		
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Possible Hazard Identification		Kadiological	ca l	S	ample Dis Retun	le Disposal ( A fe Retum To Client	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	f samples are	Archive For	onger than 1 For	<b>month)</b> Months
sted: I, II, III, IV, Other (specify)	Prelim da	10r2)=see T	ta (Level 1or2)=see TAT above. Dol		pecial Instr	uctions/QC	Special Instructions/QC Requirements: DOD QSM project.	QSM project.			
Empty Kit Relinquished by:		Date:		Time:			Method	Method of Shipment:			
Relinquished by: No AH TURNER	Date/Time: 2/10/2023 /	1315	Company AECOM	λυ N	Received by	i panda	a Delianno		23	1315	Company APE OW
iranda Risanno	Date/Time: 1 2/13/23 Date/Time:	Ohij		Company ALECOL Company	Received by: Received by:	X X X	X		723	رزى	Company Company
Custody Seals Intact: Custody Seal No.:			_		Cooler Ter	nperatuloe(s) °C	Cooler Temperature(s) °C and Other Remarks:		0	. 1/5.	
A TES A NO											Ver: 01/16/2019

Seattle		
ns FGS,	755 8th Street East	WA 98424
Eurofins	5755 8th	Tacoma,

# **Chain of Custody Record**

Curofins Environment Testing America

Client Information	Sampler: Ohniz & ayolon	Lab PM: Elaine Walker		CUC NO: 2302W1AFEA13
	Phone: BLD BIT 1355	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Tight Hawaii	Page: Page 1 of 1
Compary: AECOM	:OISMd	Anal	Analysis Requested	Job #:
hop St. Suite 1600	Due Date Requested: see subcontract			ð
	TAT Requested (days): Rush - ASAP	lc		B - NaOH N - None C - Zn Acetate O - AsNaO2 D Nitrio Acid B _ NooOAS
State, Zip: Hawaii 96813	Compliance Project: 🛆 Yes 🛆 No	onsrite		
Phone: 808-954-4512 / 770-331-0794	PO #:			ichlor corbic Acid
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	*# OM	(on J		
Project Name: CTO N6274223F0104	Project #: 60697810	10 89X		K - EUIA W - PH 4-5 L - EDA Z - other (specify)
	:#MOSS	) asn		Other:
	Sample Type Sample (C=comp,	Matrix Matrix (Wrawite: Secold Secold Cavatedia Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Mat	admuk leto	, and the second s
Sample Identification	Preserva	ation Code: XX		
AF-RHMW225401-WGN01B-2302W1	Zilo 23 1985 G	z		
	++			
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		200		
	1 1			
Possible Hazard Identification	Unknown Hadiological	Sample Disposal ( A fe	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	tained longer than 1 month) Archive For Months
	Prelim data (Level 10		project.	
Empty Kit Relinquished by:	4 report stational LAT. AF CONFECTIVE	Time:	Method of Shipment:	
	Date/Time: 2.12.23 / 13.15	Company Received by:	a De Rianna Date/Time:	Company 13/57 AFCOVA
Airanda Defacerco	0/11	A Received by:	PaterTine: /2	3 11 On Company
				Company
Custody Seals Intact: Custody Seal No.:		Cooler Temperabre(s) °C and Other Remarks:	and Other Remarks:	2.1/2.1
				Ver: 01/16/2019

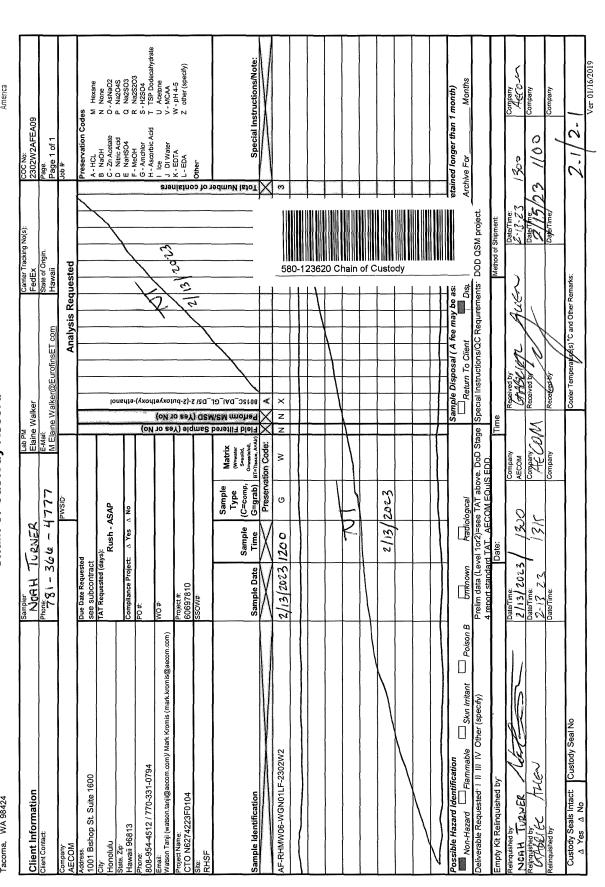
**Chain of Custody Record** 

🐝 curofins Environment Testing America

Client Information	sampler patt Yim	ک	Lab PM: Elaine	Lab PM: Elaine Walker	-	Carrier Tracking No(s) FedEX	j No(s):	COC No: 2302W1AFEA10	
	Phone: 207-349-4238	Atse	E-Mail M.Ela	ine.Walke	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii		Page: Page 1 of 1	
Company: AECOM		:DISW4			Analysis F	Analysis Requested		Job #:	
hop St. Suite 1600	Due Date Requested: see subcontract						ſ	Preservation Codes A - HCL M	des: M - Hexane
	TAT Requested (days): Rus	): Rush - ASAP		la				B - NaOH C - Zn Acetate D Mitric Acid	N - None O - AsNaO2 D - No2045
State, Zp: Hawaii 96813	liance Project:	Δ Yes Δ No		onstia				E - NaHSO4 F - MeOH	r - Na2045 Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO#:							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	₩O#;			(on .		220	510		U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810			<b>,62 0</b>			uleido		w - pri 4-3 Z - other (specify)
	SSOW#:			) asw	<i>4</i>			Other:	
			Matrix (W=waler, S=solki, O=waste/oll,	ield Filtered erform MS/I 15C_DAI_GL			edmuN ls30		
Sample Identification	Sample Date	Preserv	BT=Tissue. A=Air) ation Code:	٩X					
AF-RHMW17-WGN01LF-2302W1	2/19/2 /10			× z z				e	
	8 86								
	1.14NJ								
	MY 24 "								
¢									
<b>_</b>				Sampl	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month, 	be assessed if sam	samples are reta ab	stained longer than Archive For	1 month) Months
	Prelim data	r2)=see TAT ab	ove. DoD Stag		Special Instructions/QC Requirements: DOD QSM project.	ements: DOD Q			
Empty Kit Relinquished by:	4 report standard 1A I Date:	Date:		Time:		Method o	Method of Shipment:		
with the w	Date/Time: 2/10/23	1315	Company AECOM	<u> </u>	theast	proversa	Date/Time: 2-/10/23	1315	Company ACC ON
nda Dhanno	Date/Time: 2/13/23	والالا	Company		Received by:		2/15/2	3 1100	Company
Reinquished by:	Date/Time:		Company	Rec	Received by:		Date/Time: /		Company
Custody Seals Intact: Custody Seal No.:				ð	Cooler Terroberature(s) °C and Other Remarks:	her Remarks:		2~1/2~1	
					ć				Ver: 01/16/2019

**Chain of Custody Record** 

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# **Chain of Custody Record**

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Client Information	Sampler Ander Towner	Lab PM: Elaine	: Walker	Carrier Tracking No(s): FedEx	COC No: 2302W2AFEA08
	Phone: 402-871-5712	E-Mail: M Flair	E-Mail: M Flaine Walker@EurofinsET.com	State of Origin. Hawraii	Page: Pare 1 of 1
					- age - or - loh #-
AECOM		à	Analysis Requested	quested	
Address: 1001 Bishop St. Suite 1600	Due Date Requested. see subcontract				Preservation Codes. A - HCL M - Hexane
	TAT Requested (days): Rush - ASAP		101		B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
ь: 196813	Compliance Project: $\Delta$ Yes $\Delta$ No		18ft}9		
Phone: 808-954-4512 / 770-331-0794	:# Od	(0)		X	G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate
om)/ Mark Kromis (mark.kromis@aecom.com)	#OM		(on l	91# 	1 - Ice J - DI Water
1	Project #: 60697810	<u>,                                    </u>	10 <b>5</b> 9)	45-)(	Contraction of the second
	SSOW#:	IMB2	) asv		ö Other ö
	Sample	Sample Matrix 6 Type Matrix 6 (C=comp, Secold, 1	N/SM monsul 16C_DAI_GL	admili isj	edmuk ist
Sample Identification	Sample Date Time G=0	BT=TIssue, A=Air)			C Special Instructions/Note:
AF-RHMM04-WGN011 F-2302W2	10201				3
	3	:	:		2
	1/2/25				
2					
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Chain of Custody Record

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Chain of Custody Record

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2/22/2023

Eurofins FGS, Seattle 5755 8th Street East

**Chain of Custody Record** 

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### Login Sample Receipt Checklist

#### Client: AECOM

#### Login Number: 123620 List Number: 2 Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

List Source: Eurofins Savannah

List Creation: 02/17/23 11:30 AM