ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/2/2023 1:22:29 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126438-1

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 1

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Client: AECOM

Laboratory Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126438-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126438-1

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

Ten samples were received on 4/21/2023 1:30 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 4.7° 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-RHMW17-WGN01LF-2304W3 (580-126438-1), AF-RHMW17S-WGN01LF-2304W3 (580-126438-2), AF-RHMW17S-WQEB01-2304W3 (580-126438-3), AF-RHMW04-WGN01LF-2304W3 (580-126438-4), AF-RHMW06-WGN01LF-2304W3 (580-126438-5), AF-RHMW10-WGN01LF-2304W3 (580-126438-6), AF-HDMW225303-WGN01LF-2304W3 (580-126438-7), AF-RHMW16-WGN01LF-2304W3 (580-126438-8), AF-RHMW12A-WGN01LF-2304W3 (580-126438-9) and AF-RHMW12A-WGFD01LF-2304W3 (580-126438-10) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/01/2023.

The continuing calibration verification (CCV) associated with batch 680-776112 recovered outside acceptance criteria, low biased, for 2-(2-Butoxyethoxy)ethanol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data has been reported.

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: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 Q
 One or more quality control criteria failed.

 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)

EDI Estimated Detaction Limit (Dioxin)

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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5/2/2023

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2304W3 Lab Sample ID: 580-126438-1

Date Collected: 04/20/23 11:55 Matrix: Water

Date Received: 04/21/23 13:30

Analyte	Result	Qualifier	LOQ	DL (Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	5.0	1.1	ma/L			05/01/23 05:29	1	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2304W3 Lab Sample ID: 580-126438-2

Date Collected: 04/20/23 09:45 Matrix: Water

Date Received: 04/21/23 13:30

Analyte	Result Qu	ıalifier LOQ	DL Ur	nit D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 00	Q M 5.0	1 1 mc			05/01/23 07:25	1	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WQEB01-2304W3 Lab Sample ID: 580-126438-3

Date Collected: 04/20/23 07:55 Matrix: Water

Date Received: 04/21/23 13:30

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

Analyte	Result	Qualifier	LOQ	DL I	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	5.0	1.1	ma/L			05/01/23 07:48	1	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2304W3 Lab Sample ID: 580-126438-4

Date Collected: 04/19/23 10:55 Matrix: Water

Date Received: 04/21/23 13:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U Q	5.0	1.1 mg/L			05/01/23 08:12	1

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2304W3 Lab Sample ID: 580-126438-5

Date Collected: 04/19/23 14:40 Matrix: Water

Date Received: 04/21/23 13:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)								
	Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fa
	2-(2-Butoxyethoxy)ethanol	3.0 U Q	5.0	1.1 mg/L			05/01/23 08:35	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2304W3 Lab Sample ID: 580-126438-6

Date Collected: 04/18/23 14:30 Matrix: Water

Date Received: 04/21/23 13:30

Analyte	Result	Qualifier	LOQ	DL I	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	5.0	1.1	ma/L			05/01/23 08:58	1	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2304W3 Lab Sample ID: 580-126438-7

Date Collected: 04/18/23 11:00 Matrix: Water

Date Received: 04/21/23 13:30

Method: SW846 8015C GLY - 0									
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			05/01/23 15:45	1

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2304W3 Lab Sample ID: 580-126438-8

Date Collected: 04/19/23 12:10 Matrix: Water

Date Received: 04/21/23 13:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	ma/L			05/01/23 16:09		

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2304W3 Lab Sample ID: 580-126438-9

Date Collected: 04/19/23 10:00 Matrix: Water

Date Received: 04/21/23 13:30

	Method: SW846 80150	GLY - G	lycols- Direct	Injection	(GC/FID)
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Analyte	Result Qualifi		DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0 U	5.0	1.1 mg/l			05/01/23 16:32	1	

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Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W3 Lab Sample ID: 580-126438-10

Date Collected: 04/19/23 10:00 **Matrix: Water**

Date Received: 04/21/23 13:30

Analyte		ıalifier LOQ	DL Uni		Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U	5.0	1.1 mg	1		05/01/23 16:55	1

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-776112/11 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 776112

MB MB Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte **Prepared** 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 05/01/23 03:57 3.0 U

Lab Sample ID: LCS 680-776112/5 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Client: AECOM

Analysis Batch: 776112

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	20.0	21.0		mg/L		105	50 - 150	

Lab Sample ID: LCSD 680-776112/6 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 776112

	Sp	ike LO	CSD	LCSD				%Rec		RPD
Analyte	Add	led Re	sult	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol		0.0	18.7		mg/L	_	93	50 - 150	12	50

Lab Sample ID: 580-126438-1 MS Client Sample ID: AF-RHMW17-WGN01LF-2304W3 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 776112

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	20.0	20.4		mg/L	_	102	50 - 150	

Client Sample ID: AF-RHMW17-WGN01LF-2304W3 Lab Sample ID: 580-126438-1 MSD **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 776112

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
2-(2-Butoxyethoxy)ethanol	3.0	UQ	20.0	19.6		ma/L		98	50 - 150	4	50	

Lab Sample ID: MB 680-776218/9 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 776218

	IVID IVII	D							
Analyte	Result Qu	ualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U		5.0	1.1	mg/L			05/01/23 14:59	1

Lab Sample ID: LCS 680-776218/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 776218

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

Lab Sample ID: LCSD 680-776218/6 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Ratch: 776218

Alialysis Datcii. 110210									
	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit I	O %Rec	Limits	RPD	Limit	
2-(2-Butoxyethoxy)ethanol	20.0	17.6		ma/l	88	50 - 150		50	

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Lab Sample ID: 580-126438-1

Lab Sample ID: 580-126438-2

Lab Sample ID: 580-126438-3

Lab Sample ID: 580-126438-4

Lab Sample ID: 580-126438-5

Lab Sample ID: 580-126438-6

Lab Sample ID: 580-126438-7

Matrix: Water

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2304W3

Date Collected: 04/20/23 11:55 Date Received: 04/21/23 13:30

Client: AECOM

Batch Dilution Batch Ratch Prepared Method **Number Analyst** or Analyzed **Prep Type** Type Run **Factor** Lab 05/01/23 05:29 Total/NA 8015C GLY GEM EET SAV Analysis 776112

Client Sample ID: AF-RHMW17S-WGN01LF-2304W3

Date Collected: 04/20/23 09:45

Date Received: 04/21/23 13:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 776112 GEM EET SAV 05/01/23 07:25

Client Sample ID: AF-RHMW17S-WQEB01-2304W3

Date Collected: 04/20/23 07:55

Date Received: 04/21/23 13:30

Batch Batch Dilution Batch Prepared Method **Number Analyst** or Analyzed **Prep Type Factor** Type Run Lab 05/01/23 07:48 8015C GLY EET SAV Total/NA Analysis 776112 GEM

Client Sample ID: AF-RHMW04-WGN01LF-2304W3

Date Collected: 04/19/23 10:55

Date Received: 04/21/23 13:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Total/NA Analysis 8015C GLY 776112 GEM EET SAV 05/01/23 08:12

Client Sample ID: AF-RHMW06-WGN01LF-2304W3

Date Collected: 04/19/23 14:40

Date Received: 04/21/23 13:30

Batch Batch Dilution Batch Prepared Method **Prep Type** Number Analyst or Analyzed Type Run Factor Lab 05/01/23 08:35 776112 GEM Total/NA Analysis 8015C GLY **EET SAV**

Client Sample ID: AF-RHMW10-WGN01LF-2304W3

Date Collected: 04/18/23 14:30

Date Received: 04/21/23 13:30

Batch Dilution Batch **Prepared** Ratch **Prep Type** Type Method Run Factor **Number Analyst** Lab or Analyzed EET SAV 05/01/23 08:58 Total/NA Analysis 8015C GLY 776112 GEM

Client Sample ID: AF-HDMW225303-WGN01LF-2304W3

Date Collected: 04/18/23 11:00

Date Received: 04/21/23 13:30

Batch Batch Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab 05/01/23 15:45 8015C GLY 776218 GEM EET SAV Total/NA Analysis

Eurofins Seattle

Lab Chronicle

Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2304W3

Lab Sample ID: 580-126438-8 **Matrix: Water**

Date Collected: 04/19/23 12:10 Date Received: 04/21/23 13:30

Batch Dilution Batch **Batch** Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 05/01/23 16:09 Total/NA Analysis 8015C GLY 776218 GEM EET SAV

Client Sample ID: AF-RHMW12A-WGN01LF-2304W3

Lab Sample ID: 580-126438-9

Date Collected: 04/19/23 10:00

Date Received: 04/21/23 13:30

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed 05/01/23 16:32 Total/NA Analysis 8015C GLY 776218 GEM EET SAV

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W3

Lab Sample ID: 580-126438-10

Matrix: Water

Date Collected: 04/19/23 10:00 Date Received: 04/21/23 13:30

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type **Factor Number Analyst** Run Lab 05/01/23 16:55 Total/NA Analysis 8015C GLY 776218 GEM **EET SAV**

Laboratory References:

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

Eurofins Seattle

Matrix: Water

Accreditation/Certification Summary

Client: AECOM Job ID: 580-126438-1

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	De	ept. of Defense ELAP	L2463	09-22-24
The following englyte	والمراجع المراجع المرا			
the agency does not		ort, but the laboratory is not o	certified by the governing authority.	This list may include analytes for whic
,		ort, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for whic

Eurofins Seattle

Sample Summary

Client: AECOM Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126438-1	AF-RHMW17-WGN01LF-2304W3	Water	04/20/23 11:55	04/21/23 13:30
580-126438-2	AF-RHMW17S-WGN01LF-2304W3	Water	04/20/23 09:45	04/21/23 13:30
580-126438-3	AF-RHMW17S-WQEB01-2304W3	Water	04/20/23 07:55	04/21/23 13:30
580-126438-4	AF-RHMW04-WGN01LF-2304W3	Water	04/19/23 10:55	04/21/23 13:30
580-126438-5	AF-RHMW06-WGN01LF-2304W3	Water	04/19/23 14:40	04/21/23 13:30
580-126438-6	AF-RHMW10-WGN01LF-2304W3	Water	04/18/23 14:30	04/21/23 13:30
580-126438-7	AF-HDMW225303-WGN01LF-2304W3	Water	04/18/23 11:00	04/21/23 13:30
580-126438-8	AF-RHMW16-WGN01LF-2304W3	Water	04/19/23 12:10	04/21/23 13:30
580-126438-9	AF-RHMW12A-WGN01LF-2304W3	Water	04/19/23 10:00	04/21/23 13:30
580-126438-10	AF-RHMW12A-WGFD01LF-2304W3	Water	04/19/23 10:00	04/21/23 13:30

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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Urited AWB 516-73024812 America

Client Information	Sampler:	Sai 7)		PM:	Walk							Carrie	er Trac	king N	(s):	`		COC No	: /3AFE/	40		
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AECOM Address:			PWSID:		L				,	Anai	ysis	Red	ques	ted					Job#:				
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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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united AWB 016-73624

Environment Testing

Carrier Tracking No(s): 2304W3AFEA08 Elaine Walker aaru un Client Information E-Mail: State of Origin: Page: Client Contact: 808-265-6104 VI, Elaine .Walker@EurofinsET.com Page 1 of 1 Hawaii Company: AECOM **Analysis Requested** Preservation Codes: Due Date Requested: Address: see subcontract A - HCL 1001 Bishop St. Suite 1600 B - NaOH N - None TAT Requested (days): City: C - Zn Acetate O - AsNaO2 Rush - 5 Day Honolulu D - Nitric Acid P - Na2O4S 3016C_DAL_GL_D5/2.{2-butoxyethoxy)-ethanol State, Zip: E - NaHSO4 Q - Na2SO3 Compliance Project: A Yes A No Hawaii 96813 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchine T - TSP Dodecahydrate H - Ascorbic Acid 808-954-4512 / 770-331-0794 U - Acetone J - Ol Water V - MCAA Watson Tanji (watson.tenji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) K - EDTA W - pH 4-5 Project Name: L - EDA Z - other (specify) 60697810 CTO N6274223F0104 SSOW# RHSF Sample Matrix Type (C=comp. Sample Special Instructions/Note: Time G=grab) stellsme, A-Al Sample Date Sample Identification Х G 419.23 AF-RHMW04-WGN01LF-2304W3 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For Month Possible Hazard Identification readiological Non-Hazard Flammable Skin Imitant Poison B 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: Time: Empty Kit Relinquished by: Relinquished by: Mirandia 4-14-23 AECOM aara un Company Relinquished by: AECOW. barro 41:01:13 Relinquished by: Cooler Temperature(s) *C and Other Remarks: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No

Chain of Custody Record

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

United AWB 016-73024862

eurofins Environment Testing America

	Sampler:			Lab	PM:					11	<u>دے</u>	W4	arrier 1					COC No:		-
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mait. Vatson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	wo#:				103		oxye				1	3	1					i - fce J - DI Water K - EDTA		U - Acetone V - MCAA W - pH 4-5
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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

© eurofins 516-73-248-2 Environment Testing America

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Client Contact:	Phone: (17-	519-361	ζ	Е-м М.Е	lail: Elaine,V	Valker	@Eurc	finsE	r.com			te of Or waii	igin:			Page: Page 1 of 1		
Company: AECOM			PWSID:					A	naly	sis F	Regue	sted				Job#:		
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State, Zip: Hawaii 96813	Compliance Proje					jo j		+			ĺ					D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone: 808-954-4512 / 770-331-0794	PO#:	CC 8 123	A 140			xy) eth	1		E	ท	.1/	<i>Y</i>				F - MeOH G - Amchior	R - Na2S2O 5 - H2SO4	3
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	W0 #:				OTIC TOTAL	xyetho		0	4/	18	1		1	\mathcal{D}		H - Ascorbic A I - Ice J - DI Water	∵ TSP Dod U - Acetone V - MCAA	ecahydrate
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Carrier Tracking No(s):

COC No: 2304W3AFEA04

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Chain of Custody Record

Lab PM: Elaine Walker

Sampler Eli Movin

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Client Information
Client Contact:

Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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City: Honolulu	TAT Requested (d	Rush -	5 Day			1			\mathcal{A}	-	T					Ì		B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaC P - Na2O4	
State, Zip: Hawaii 96813	Compliance Proje	ot: Δ Yes	Δ No		11	fhano		1		1	۱,							E - NaHSO4 F - MeOH	Q - Na2SC R - Na2S2	O 3
Phone: 808-954-4512 / 770-331-0794	P0#:				e O	oxy}				4	4/6	火	1					G - Amchlor H - Ascorbic Acid	S - H2SQ4	
Ernait: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	W0 #:				See .	xyeth			1	4/1		1						t - Ice J - Di Water	U - Aceton V - MCAA	
Project Name: CTO N6274223F0104	Project#: 60697810	·	***************************************		TOTAL	2-bute				X	1		-		$\neg \downarrow$		Pontalin	K - EDTA L - EDA	W - pH 4-5 Z - other (s	
Site: RHSF	SSOW#:					05/2-(X	1	1	1			1			Other:		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wawater, Saudel, Owwestelol), BT=Tissue, AnAld	1	8015C_DAI_GL_D5/2-(2-buloxyethoxy)-ethanol									4	+	(co) Number	Special	nstructions	e/Note:
Sen) de (de finicación	Popular Control			tion Code:	1 (b.4						200			1			1.22	Ореслаг	is did debotic	
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Possible Hazard Identification Non-Hazard Flammable Skin Imitant Poison B	onknown		ological		San	npie : □ _{Re}	Dispo tum 7	sal ('n Cli	A fe	e maj	be a	isses Venn	sed i sai Ru	f san cliah	npies	are re	etaine Ambii	d longer than ve For	1 month) Month:	
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telinguished by:	Date/Time:	<u>~</u>	7.47	Company		Receiv	red by:	//	7-					P	30/17	21	<u>7</u> 3	1251	Company	
Custody Seals Intact			<u></u>	*k		Cooler	Yegye	rature	(s) °C	and Ot	her Re	marks:				1		4.7/5	3	
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Environment Testing
America

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Client Information	Sampler:	: Man	tr.		PM: aine V	/alker							amer⊺ edEx	racking -	No(s	s):			COC No: 2304W3AFEA)5	
Client Contact:	Phone: 517	-597-	3612		tall: Elaine	.Walk	er@E	urofi	nsET	.com			ate of awaii	Origin:					Page: Page 1 of 1		
Company: AECOM			PWSID:		T				Ar	naly	sis R	equ	este	d					Job #:		
Address: 1001 Bishop St. Suite 1600 Clty: Honolulu	Due Date Reque see subcontra TAT Requested (ct (days):																	Preservation Co A - HCL B - NaOH	M - Hexane N - None	
Honolulu State, Zip: Hawaii 96813	Compliance Proj	Rush -		·	- 1	MITO		1						\mathbb{Z}					C - Zn Acetate D - Nitric Acid E - NaHSO4	O - AsNaO2 P - Na2O4S Q - Na2SO3	
Phone: 808-954-4512 / 770-331-0794 Email:	PO#:				0110	hoxylet			2	-// ///	1	3/	1						F - MeOH G - Amchior H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dode	
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	wo#:					toxyet					1		K	1		I/I		.	i - ice J - Di Water K - EDTA	U - Acetone V - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810					7. 7. 7.				4	\mathcal{A}	1				ŁΙ		₫	L - EDA	W - pH 4-5 Z - other (spe	cify)
Site: RHSF	SSOW#:				0	750				,							2	•	Other:		
Sample Identification	Sample Dete	Sample Time		Matrix (Wowster, Societi, Ownerselot, ET-Thous, A-Air		8015C_DALGL_DS/242-butoxyethoxy)-ethanol		4					(j		SSA KALINESIA KALINGANIA KALING	Signification (Special In	structions/N	lote:
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Possible Hazard Identification Non-Hazard Flammable Skin Initant Poison B			ological		'	R	etum	То С	lient		(6)341	Dispo	sal E	y Lab	,]		longer than 1	month) Months	
Deliverable Requested: I, II, III, IV. Other (specify)	Prelim data (Le 4 report standar	vel 1or2)=se d TAT. AEC	e TAT abov	ve. DoD Stag S EDD.	ge Sp	ecial	Instru	ction	s/QC	Requ	Jirem	ents:	DOD	QSM	proj	ect.					
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Relinquished by:	Date/Time:	34/2012	المعالمة المعالمة	Company ATT CO	ri	Recei	ived by	1		7				Ē	ate/T	ima:	50	B	1775	Company	
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Custody Seals Intact: Custody Seal No.:						Coale	r Temp	eratu	/(s) °C	and C	Other R	emarks	:		7		122				
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Chain of Custody Record

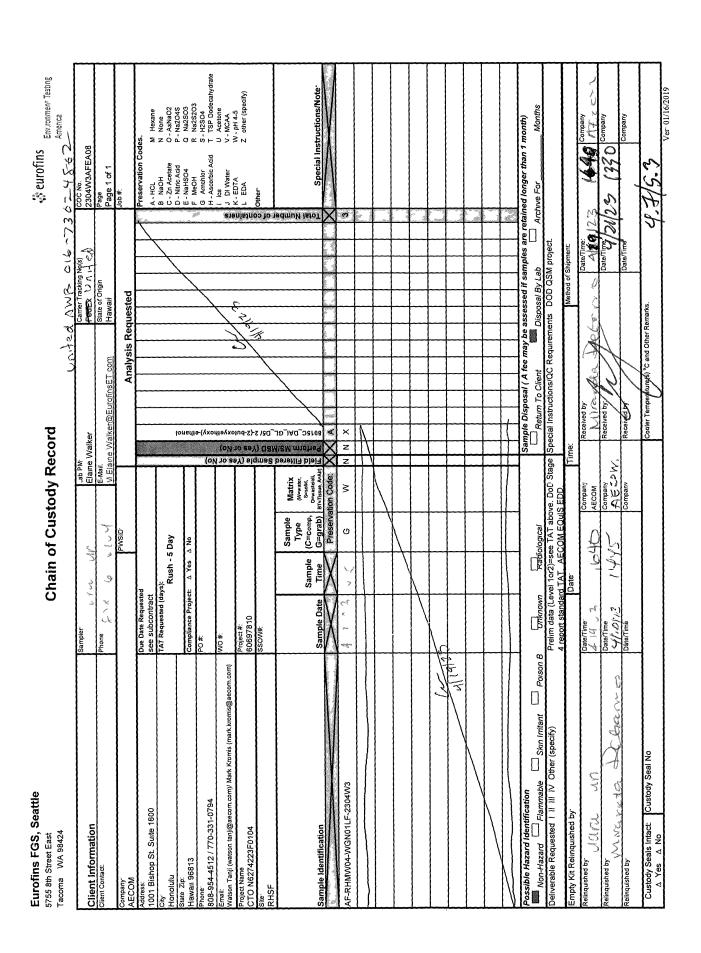
Eurofins FGS, Seattle

5755 8th Street East

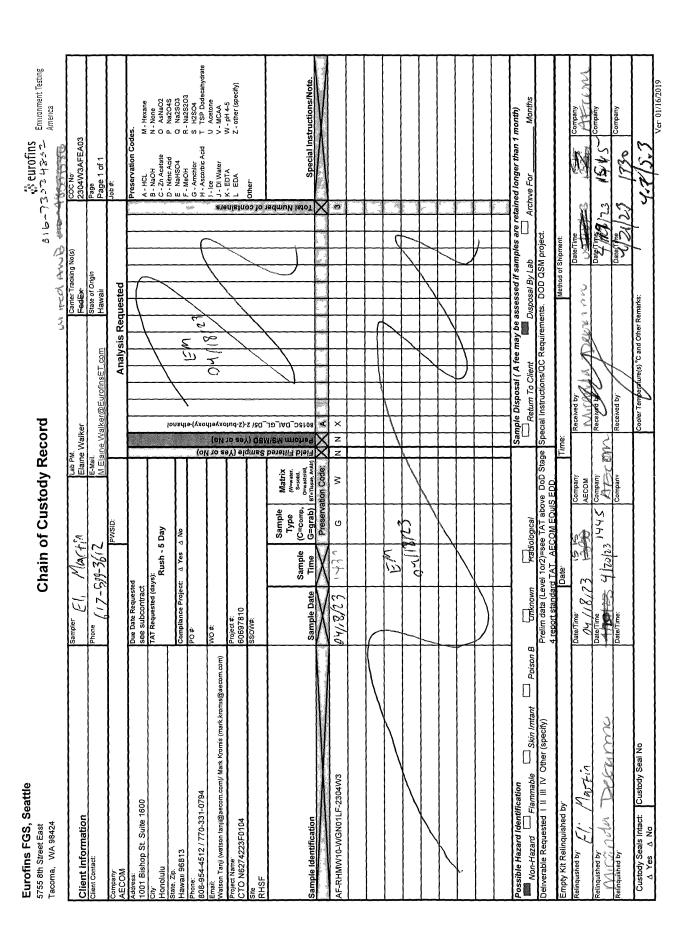
Tacoma, WA 98424

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chai	in of Cus	Chain of Custody Record	ord	5	7	45	5.6.7	60	** eurofins	Envronment Testing America
Client Information	Sampler &S < v L	77	Lab PM: Elaine W	Lab PM Elaine Walker			Carrier Tracking No(s)	1 No(s)	23 CO	COC No. 2304W3AFEA10	0
Client Contact:	Phone: 218 225	3748	E-Mail M.Elaine	Walker@Eu	rofinsET co		State of Origin Hawaii		Pag	Page Page 1 of 1	
Company AECOM		PWSID:			Ana	Analysis Requested	iested		qor	#	
Address: 1001 Bishop St. Surte 1600	Due Date Requested see subcontract						-		Pre A	Preservation Codes.	des.
City: Honolulu	TAT Requested (days): Rus	Rush - 5 Day			\neq				(m ပ	B NaOH C - Zn Acetate	N None O - AsNaO2
State Ztp: Hawaii 96813	Compliance Project: A	A Yes A No		lonsdi			_			Nitric Acid NaHSO4	P - Na2045 Q Na2SO3
Phone 808-954-4512 / 770-331-0794	,#Od		(0)	ox))-6		7			LOI	Amchlor Ascorbic Acid	S H2SO4 T - TSP Dodecahydrate
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	#OM					7	+			I - Ice J - DI Water	U Acetone V MCAA
Project Name CTO N6274223F0104	Project #: 60697810				7	1	_		Leaders of the Control	K EDTA L-EDA	W - pH 4-5 Z other (specify)
	ssow#:			artico con contract	/		_		of co	er	
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Sample Identification	Sample Date Time		BT=Tissue, A=Airi III.	-			-		<u>.</u>	Special I	Special Instructions/Note:
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Possible Hazard Identification Non-Hazard Flammable Skin Imtant Poison B		Radiological		Sample Disposal (A fee may be assessed if samples are retained longer Disposal By Lab Archive For	osal (A fe To Client	may be as	sessed if s sposal By L	amples are	retained long Archive For	onger For	
ssted I II IV Other (specify)	el 1or 3 TAT	2)=see TAT abo AFCOM FOUL	ive DoD Stage S	pecial Instru	ctions/QC F	equirement	s DOD Q	M project.			
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Custody Seals Intact Custody Seal No				Cooler Tem	oefature(s) °C	Cooler Temperature(s) °C and Other Remarks.	arks.		2	5/2:	Z.
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Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chain	of Cus	Chain of Custody Record	cord contes	4 S SIVA	5021-	* eurofins	Envronment Testing America
Client Information	Sampler - Natha	V.1	Lab PM. Elaine	Nalker	Carrier Tracking No(s)	10(s):	COC No: 2304W3AFEA12	
Client Contact:	Phone: 51 - 199	1_	E-Mail: M.Elayr	E-Mail: M.Elaine Walker@EurofinsET.com	State of C Hawaii		Page Page 1 of 1	
Company AECOM		-OISMd		Analysis	is Requested			
Address: 1001 Bishop St. Suite 1600	Due Date Requested: see subcontract						Preservation Codes	les: M Hexane
City Honolulu	TAT Requested (days): Rush): Rush - 5 Day		3			B - NaOH C Zn Acetate	N - None O - AsNaO2
State Zip: Hawaii 96813	Compliance Project: A Yes	s & No			_		D - NRIC AGG E - NaHSO4 F - MeOH	P - Na2O4S Q Na2SO3 R - Na2S2O3
Phone 808-954-4512 / 770-331-0794	PO#:		(0)		_		G Amchlor H Ascorbic Acid	S - H2SO4 7 TSP Dodecahydrate
Email: Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:		10 8	(on		Sie		U Acetone V MCAA
Project Name CTO N6274223F0104	Project #: 60697810) A) 9)	10 59/		nistn	د ۲	Z - other (specify)
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Sample Identification	Sample Date Time	-	D=waste/oll, BT=Tissue, A=Air)	64)		o1⟩		Special Instructions/Note:
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Possible Hazard Identification Non-Hazard Posson Blammable Stan Initant Posson B	moown.	Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Mon	nay be assessed if sam Disposal By Lab	mples are retair 5	tained longer than 1 Archive For	(month)
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Relinquished by	Date/Time.		Company	Received by		Date/Time!	,	Company
Custody Seals Intact: Custody Seal No				Cooler Température(s) °C and Other Remarks.	d Other Remarks.	4.7	453	
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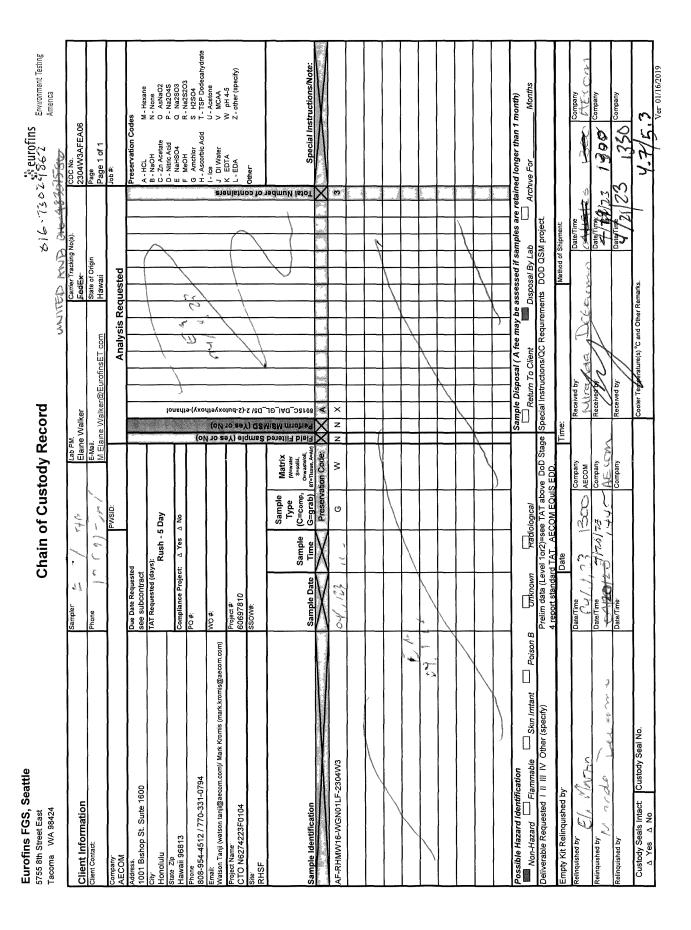


Eurofins FGS, Seattle 5755 8th Street East	Chain of Custody Record	ustody Re	cord			rofins	Environment Testing
Tacoma WA 98424		•		tes AWB	1362	4So2 America	23
Client Information	Sampler AUTOL AN	Lab PM. Elaine	Walker	Carrier Tra	icking No(s)	COC No: 2304W3AFEA09	
	àc	E-Mail: M Elai	E-Mail: M Elaine.Walker@EurofinsET.co	State of Or DM Hawaii		Page: Page 1 of 1	
Company AECOM	PWSID		An	ılysis Red		Job #:	
hop St. Suite 1600	Due Date Requested see subcontract					Š	900
City. Honolulu	fAT Requested (days) Rush - 5 Day		Table Control of the		- Contraction of the Contraction	B NaOH N-None	a02
Zip iii 96813	Compliance Project: A Yes A No		lonsdie			a. O a	Na2O4S Na2SO3 Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO#	40r				-1 W ≥	H2SO4 TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:	10 %	(on	7			U Acetone V MCAA
П	Project #: 60697810	SK) 41	(S-pnio	**	anlain	K EDTA W-pH.	t-5 (specify)
	SSOW#:	omas	NSD (A	3	o3 Jo	Other	
	Sample	Matrix	ilitered m MSvin DALGL		lumber		
Sample Identification	Sample Date (C≃comp,	(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	nohaq	Apparatus and populational designation of the property and process and a State of St	A IssoT	Special Instructions/Note	ns/Note
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AF-RHMW06-WGN01LF-2304W3	4 1 22 240 6	3	×		£ 3		
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Possible Hazard Identification	lespoloites		Sample Disposal (A1	fee may be assessed if san	if samples are retained lor	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Archive Ent. Months) tus
Other (specify)	Prelim data (Level 10r2)≃see TAT above DoD Stage	above DoD Stage	Special Instructions/Q(Requirem	i i		
	4 report standard IAL AECOM EQUIS EDD		Time	Metho	Method of Shipment:		
	DaterTime:	Company AECOM	Received by	1. Day	Date/Time	Company	y
rate Delto Vic	Jate/Time:	Company	Received by		CC/1C/be	1330 Company	y
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Custody Seals Infact: Custody Seal No			Cooler Temperature of C and Other Remarks:	°C and Other Remarks:	5	5.3	
							Ver 01/16/2019



N. Nane
No. Nano
P. NaZO45
R. NaZS03
R. NaZS03
S. HZS04
T. TS Dodecanydrate
V. MCAA
W. PH 4.
Z. other (specify) **Environment Testing** Special Instructions/Note: Ver 01/16/2019 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont # eurofins 2304W3AFEA04 A - HCL B - NaOH C Zn Acetate D Nitric Acid E NaHSO4 F - MeOH H - Assorbic Acid H - Assorbic Acid I ce I ce L - D D Water K - E DTA 0881 Page: Page 1 of 1 Archive For ω X Total Number of containers Date/Time: Date/Time: | Control | Fadiological | Control Method of Shipment Ü 18/10 FedEx State of Origin. **Analysis Requested** Correct AND Hawaii Cooler Temperature(s) °C and Other Remarks: Lab PM: Elaine Walker E-Mail: M Elaine, Walker@EurofinsET.com Received by Received by Chain of Custody Record 2012C DVI Gr D2(5-(5-pntox)-stpsuo) (avi no selv) GSM/SM miches z Company
AECOM
Company
Company Matrix (W=water S=solld, O=wactefoll, BT=TIssue, A=Air) G=grab) | BT*TISSU0, A=AII Preservation Code: ≥ 2rol 2000 2 Type (C=comp, Sample Due Date Requested: see subcontract TAT Requested (days)* Rush - 5 Day ഗ 16% Now Air Sample Time X (DaterTime
0 -/ //8/22
DaterTime
DaterTime 665-69 Compliance Project: PO #: Sample Date Sampler (E() CYTIS 17.3 Project #: 60697810 SSOW#: SU NO Poison B S. 1. atson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) None Con Skin Imfant IV Other (specify Custody Seal No AF-HDMW225303-WGN01LF-2304W3 CI MACHE Possible Hazard Identification
Non-Hazard Plammable Eurofins FGS, Seattle eliverable Requested, I II III 108-954-4512 / 770-331-0794 don't Bishop St. Suite 1600 Empty Kit Relinquished by: 27792 Custody Seals Intact: △ Yes △ No Client Information Sample Identification Project Name CTO N6274223F0104 Tacoma, WA 98424 5755 8th Street East Constitution of the consti State Zip Hawair 96813 linquished by: elinquished by Jonolulu **LECOM** RHSF



930 Date/Time: Method of Shipment: 4/7/ Received by Wash was a series Received by るとのと Company 4/20/22 28 Date/Time Str/17 Date/Time. Date/Timer 2 ST. ST. noty Kit Relingi nquished by: elinquished by finquished by

N - None
O Ashao2
P - NaZO45
G - NaZSO3
S + NaZSO3
S + RAZSO4
T - TSP Dodecahydrate
U - Acetine
V - MCAA
V - MCAA
Z - other (specify) Environment Testing Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) reservation Code 616-7302 + eurofins COC No: 2304W3AFEA05 A - HCL
B - NaOH
C - Zn Acetate
C - Zn Acetate
D Nitro Acid
E - Nad-Na-No-4
F - MeOH
H Ascorbic Acid
H Ascorbic Acid
I toe
J - Di Water
K E DTA
L - E DA Page: Page 1 of 1 Job #: Archive For Total Number of containers • m Return To Client Disposal By Lab
Special Instructions/QC Requirements DOD QSM project. Carrier Tracking No(s) FedEx State of Origin Hawaii のろれなろう Analysis Requested K E-Mail: M Elaine Walker@EurofinsET com 6 Chain of Custody Record × z z × 8012C_DALGL_DS/ 2-(2-butoxyethoxy)-ethanol Lab PM: Elaine Walker 3 Unknown Radiological
Prelim data (Level 1or2)=see TAT above. DoD Stage
4 report standard TAT AECOM EQuIS EDD Matrix
(W=water
S=solld,
O=wasteloll,
BT=Tissue, A=Atr) Preservation Code; ≷ ≥ Type (C≃comp, G≃grab) Sample Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day ഗ ტ 12 1 Sample 3 17-19 ompliance Project: りえ Sample Date ex 119765 5 Project #: 60697810 Poson B Vatson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant Deliverable Requested | | | | | V Other (specify AF-RHMW12A-WGFD01LF-2304W3 AF-RHMW12A-WGN01LF-2304W3 Flammable Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424 Possible Hazard Identification 308-954-4512 / 770-331-0794 1001 Bishop St. Suite 1600 Client Information Sample Identification Project Name CTO N6274223F0104 Non-Hazard State Zip: Hawaii 96813 Company: AECOM

Client: AECOM Job Number: 580-126438-1

Login Number: 126438 List Source: Eurofins Savannah List Number: 2 List Creation: 04/26/23 02:51 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	
Γhe 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 ampered 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?	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.