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PREPARED FOR

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

Generated 11/20/2023 9:40:25 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-133679-1

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.

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Authorization

Generated 11/20/2023 9:40:25 AM

Authorized for release by Tracy Dutton, Client Relations Manager <u>Tracy.Dutton@et.eurofinsus.com</u> (253)248-4970

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Client: AECOM

Laboratory Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-133679-1

Laboratory: Eurofins Seattle

Narrative

Job Narrative 580-133679-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 11/9/2023 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 time was 4.1°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.

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

Samples AF-HDMW225303-WGN01LF-2311 (133679-5), AF-RHMW02-WGFD01LF-2311 (133679-7), AF-RHMW02-WGN01LF-2311 (133679-6), AF-RHMW04-WGN01LF-2311 (133679-3), AF-RHMW06-WGN01LF-2311 (133679-2), AF-RHMW16-WGN01LF-2311 (133679-1) and AF-RHMW225401-WGN01B-2311 (133679-4) were analyzed for Glycols- Direct Injection (GC/FID). The samples were analyzed on 11/16/2023 and 11/19/2023.

The continuing calibration verification (CCV) associated with batch 680-808697 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported.

The closing continuing calibration verification (CCV) associated with batch 680-809119 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.

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Definitions/Glossary

Client: AECOM Job ID: 580-133679-1

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, 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)

EDL Estimated Detection Limit (Dioxin
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

Detection Limit (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 Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2311 Lab Sample ID: 580-133679-1

Date Collected: 11/06/23 10:20 Matrix: Water

Date Received: 11/09/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 110	5.0	1.1 mg/l			11/16/23 20:30	1

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Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2311 Lab Sample ID: 580-133679-2

Date Collected: 11/07/23 12:40 **Matrix: Water**

Date Received: 11/09/23 10:30

Analyte	Result Qua	lifier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UQ	5.0	1.1 mg/l			11/16/23 20:54	1

Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2311 Lab Sample ID: 580-133679-3

Date Collected: 11/07/23 10:00 Matrix: Water

Date Received: 11/09/23 10:30

Method: SW846 8015C GLY - 0	Glycols- Dire	ect Injecti	on (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fa
2-(2-Butoxyethoxy)ethanol	3.0	UMQ	5.0	1.1	mg/L			11/16/23 21:17	

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Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2311 Lab Sample ID: 580-133679-4

Date Collected: 11/07/23 11:40 Matrix: Water

Date Received: 11/09/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U M Q	5.0	1.1 mg/L			11/16/23 21:40	1

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Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2311 Lab Sample ID: 580-133679-5

Date Collected: 11/07/23 10:00 Matrix: Water

Date Received: 11/09/23 10:30

Analyte	Result Qua	lifier LOQ	DL Uni	it D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U Q	5.0	1.1 mg	/L		11/19/23 14:42	

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Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2311 Lab Sample ID: 580-133679-6

Date Collected: 11/07/23 11:50 Matrix: Water

Date Received: 11/09/23 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	3.0	U Q	5.0	1.1	mg/L			11/16/23 22:27	1

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Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGFD01LF-2311 Lab Sample ID: 580-133679-7

Date Collected: 11/07/23 11:50 Matrix: Water

Date Received: 11/09/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 110	5.0	1.1 mg/l			11/16/23 22:51	

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Job ID: 580-133679-1

Prep Type: Total/NA

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-808697/11 Client Sample ID: Method Blank

Matrix: Water

Client: AECOM

Analysis Batch: 808697

MB MB

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			11/16/23 20:07	1

Lab Sample ID: LCS 680-808697/1007 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 808697

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 2-(2-Butoxyethoxy)ethanol 23.2 mg/L 116 50 - 150

Lab Sample ID: LCSD 680-808697/8 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 808697

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits Analyte Unit %Rec **RPD** Limit 2-(2-Butoxyethoxy)ethanol 20.0 23.6 mg/L 50 - 150

Lab Sample ID: 580-133679-1 MS Client Sample ID: AF-RHMW16-WGN01LF-2311 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 808697

Spike MS MS %Rec Sample Sample Unit Analyte Result Qualifier Added Result Qualifier %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 UQ 23.8 20.0 mg/L 119 50 - 150

Lab Sample ID: 580-133679-1 MSD Client Sample ID: AF-RHMW16-WGN01LF-2311 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 808697

MSD MSD Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Limit 2-(2-Butoxyethoxy)ethanol 3.0 U Q 20.0 26.8 134 mg/L 50 - 150

Lab Sample ID: MB 680-809119/8 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 809119

MB MB

Result Qualifier LOQ Analyte DL Unit Prepared Analyzed Dil Fac 2-(2-Butoxyethoxy)ethanol 30 U 5.0 1.1 mg/L 11/19/23 14:19

Lab Sample ID: LCS 680-809119/1005 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 809119

Spike LCS LCS %Rec Added Result Qualifier Limits Unit %Rec 2-(2-Butoxyethoxy)ethanol 20.0 20.3 mg/L 102 50 - 150

Lab Sample ID: LCSD 680-809119/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 809119									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	15.4		mg/L		77	50 - 150	28	50

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RPD

Job ID: 580-133679-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 580-133679-3

Lab Sample ID: 580-133679-4

Lab Sample ID: 580-133679-5

Lab Sample ID: 580-133679-6

Lab Sample ID: 580-133679-7

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2311

Lab Sample ID: 580-133679-1 **Matrix: Water**

Date Collected: 11/06/23 10:20 Date Received: 11/09/23 10:30

Client: AECOM

Dilution Batch Ratch Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Number Analyst** Lab 8015C GLY DBM EET SAV 11/16/23 20:30 Total/NA Analysis 808697

Client Sample ID: AF-RHMW06-WGN01LF-2311 Lab Sample ID: 580-133679-2

Date Collected: 11/07/23 12:40 Date Received: 11/09/23 10:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 808697 DBM EET SAV 11/16/23 20:54

Client Sample ID: AF-RHMW04-WGN01LF-2311

Date Collected: 11/07/23 10:00

Date Received: 11/09/23 10:30

Batch Batch Dilution Batch Prepared Method **Factor Number Analyst** or Analyzed **Prep Type** Type Run Lab 11/16/23 21:17 Total/NA Analysis 8015C GLY 808697 DBM **EET SAV**

Client Sample ID: AF-RHMW225401-WGN01B-2311

Date Collected: 11/07/23 11:40

Date Received: 11/09/23 10:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY DBM EET SAV 11/16/23 21:40 Total/NA 808697

Client Sample ID: AF-HDMW225303-WGN01LF-2311

Date Collected: 11/07/23 10:00

Date Received: 11/09/23 10:30

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run Factor Lab 11/19/23 14:42 Total/NA Analysis 8015C GLY 809119 DBM **EET SAV**

Client Sample ID: AF-RHMW02-WGN01LF-2311

Date Collected: 11/07/23 11:50

Date Received: 11/09/23 10:30

Dilution Batch Batch Ratch Prepared **Prep Type** Type Method Factor Number Analyst or Analyzed Run Lab EET SAV 11/16/23 22:27 Total/NA Analysis 8015C GLY 808697 DBM

Client Sample ID: AF-RHMW02-WGFD01LF-2311

Date Collected: 11/07/23 11:50

Date Received: 11/09/23 10:30

Batch Batch Dilution Batch **Prepared** Method or Analyzed Prep Type Type Run **Factor Number Analyst** Lab 8015C GLY 11/16/23 22:51 Total/NA Analysis 808697 DBM **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: 580-133679-1

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	Progra	am	Identification Number	Expiration Date		
ANAB	Dept. of Defense ELAP		L2463	09-22-24		
The following analyte	s are included in this repo	rt, but the laboratory is n	ot certified by the governing author	ity. This list may include analyt		
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Sample Summary

Client: AECOM Job ID: 580-133679-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-133679-1	AF-RHMW16-WGN01LF-2311	Water	11/06/23 10:20	11/09/23 10:30
580-133679-2	AF-RHMW06-WGN01LF-2311	Water	11/07/23 12:40	11/09/23 10:30
580-133679-3	AF-RHMW04-WGN01LF-2311	Water	11/07/23 10:00	11/09/23 10:30
580-133679-4	AF-RHMW225401-WGN01B-2311	Water	11/07/23 11:40	11/09/23 10:30
580-133679-5	AF-HDMW225303-WGN01LF-2311	Water	11/07/23 10:00	11/09/23 10:30
580-133679-6	AF-RHMW02-WGN01LF-2311	Water	11/07/23 11:50	11/09/23 10:30
580-133679-7	AF-RHMW02-WGFD01LF-2311	Water	11/07/23 11:50	11/09/23 10:30

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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



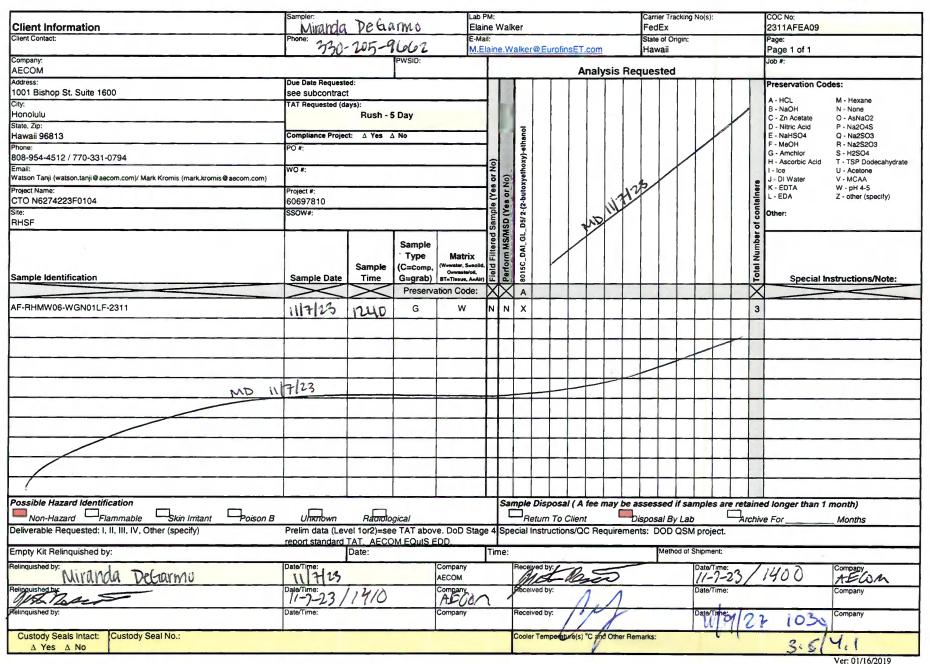
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Address:	Due Date Requeste	ed:													1	Preservation Cod	les:
1001 Bishop St. Suite 1600	see subcontract	t					1 1									A - HCL	M - Hexane
City:	TAT Requested (da	ays):			1 1											B - NaOH	N - None
Honolulu		Rush -	5 Day		11	8								$V \perp$		C - Zn Acetate	O - AsNaO2
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Hawaii 96813	Compliance Project	t: A Yes	\ No			Ę	1 1						1/			F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone:	PO #:					Perform MS/MSD (Yes or No) 8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol						4	\mathcal{L}		-	G - Amchlor	S - H2SO4
808-954-4512 / 770-331-0794					<u> </u>	l š			- 1		- 1					H - Ascorbic Acid	T - TSP Dodecahydrate
Email:	WO #:					(등 등	1 1				1	X		1 1		I - Ice J - DI Water	U - Acetone V - MCAA
Watson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis @aecom.com) Project Name:					1 8	ž 8				1 1	\cap		1		8.0	K - EDTA	W - pH 4-5
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Sample Identification	Sample Date	Time		O=waste/oil, BT=Tissue, A=Air)	Field	<u> </u>									ē	Special In	structions/Note:
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Possible Hazard Identification					S	Sampl	e Disp	osal	(A fee	e may l	e ass	essed	if sampl			ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radiolo	ngical			\Box ,	Return	To C	lient		Disn	osal By	Lab	$\Box_{\!\scriptscriptstyle A}$	Vrchiv	ve For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev			e DoD Stag	e 4 S												
Deliverable riequested: 1, 11, 111, 17, Other (specify)	report standard				٦	peola	,	00	J, Q J .	icquiic		000	aoiii pii	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Environment TestingAmerica



5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Environment Tesu America

Carrier Tracking No(s): COC No: miranda Detrame Elaine Walker 2311AFEA08 Client Information FedEx Client Contact: State of Origin: Page: M.Elaine.Walker@EurofinsET.com Hawaii Page 1 of 1 Company **Analysis Requested** AECOM Address: Due Date Requested: Preservation Codes: 1001 Bishop St. Suite 1600 see subcontract A - HCL M - Hexane TAT Requested (days): B - NaOH N - None Honolulu Rush - 5 Day 0 - AsNaO2 C - Zn Acetate D - Nitric Acid P - Na2O4S State, Zip: D5/ 2-(2-butoxyethoxy)-ethanol E - NaHSO4 Q - Na2SO3 Compliance Project: A Yes A No Hawaii 96813 R - Na2S2O3 F - MeOH S - H2SO4 G - Amchior d - Asco. I - Ice J - DI Water K - EDTA L - ED 808-954-4512 / 770-331-0794 T - TSP Dodecahydrate H - Ascorbic Acid WO#: U - Acetone V - MCAA Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) W - pH 4-5 Project Name: Project #: Z - other (specify) 60697810 CTO N6274223F0104 SSOW#: RHSF Total Number of DALGL Sample Type Matrix Sample (C=Comp, Time G=grab) Special Instructions/Note: Sample Identification Sample Date Preservation Code: AF-RHMW04-WGN01LF-2311 11/7/23 Х 3 G N 1000 117/05 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Disposal By Lab Archive For Return To Client Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Deliverable Requested: I, II, III, IV, Other (specify) Prelim data (Level 1or2)=see TAT above. DoD Stage 4 Special Instructions/QC Requirements: DOD QSM project. report standard TAT. AECOM EQuIS EDD. Empty Kit Relinquished by: Date: Time: Company AECCA inmonda Desarmo AECOM A SUM Received by: Custody Seal No .: Custody Seals Intact: Cooler Temperature(s) of and Other Remarks: Δ Yes Δ No Ver: 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Environment Testing America

Client Information	Sampler: Clar	alin		Lab F Elair	м: ne W	alker						arrier Trac	king No(s):			COC No: 2311AFEA07	
Client Contact:	Phone: <1)8?	68610	4	E-Ma	d:		er@E	irofins	ET C	m		tate of Ori	gin:			Page: Page 1 of 1	
Company:	1 3000	2001	PWSID:				10100									Job #:	
AECOM Address:	Due Date Requeste	id:			-			1 1	Ana	alysis	Requ	ested	1 1	I	_	Preservation Cod	les:
1001 Bishop St. Suite 1600	see subcontract				П											A - HCL	M - Hexane
City: Honolulu	TAT Requested (da	iys): R <mark>ush -</mark> 5	Day													B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Projec	t: A Yes A	No		П		900									D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	PO #:						xy)-en									G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis @aecom.com)	WO #:				ŏ	<u></u>	ryetho				13				90	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No.	sor	Z-buto)			X					containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:				Sampl	So Ca	19/2-l	{	الر						of con	Other:	
Sample Identification	Sample Date	Sample Time		Matrix (W-water, S-solid, O-waste/oil, BT-Tissue, A-Air)	old Filtered	7	V outse_DAL_CL_DS/ 2-(2-butoxyetnoxy)-etnanot								Total Number	Special In	structions/Note:
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radiolo			1	Samp	le Dis	posal	(A fe							l longer than 1	
Non-Hazard Flammable Skin Irritant Poison B Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	el 1or2)=se	TAT abov		e 4 S	Speci	Return al Instr	uction:	s/QC			oosal By			Archive	For	_ Months
Empty Kit Relinquished by:	report standard	TAT. AECC Date:	M EQuIS E	DD.	Time	e:		_	_		_	Metho	d of Shipme	nt:			
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Befinquished by:	7/-7-23 Date/Time:	1 17		AECOM Company		Re	ceived b	y:	1/2	1			Date/T	ima	1.	120	Company
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Client Information	Sampler: (Java	alm		Lab P Elair		alker						arrier Tra	king No(s):		COC No: 2311AFEA04		
Client Contact:	Phone:	C OVI 1		E-Mai								state of On	gin:	_		Page:	-	
	Phone: 808 20	6 (11) g	<u> </u>	M.El	aine.	Walk	er@E	urofins	ET.co	<u>m</u>		lawaii				Page 1 of 1		
Company: AECOM			PWSID:						Ana	lysis	Requ	ested				Job #:		
Address: 1001 Bishop St. Suite 1600	See subcontract															Preservation 0	odes:	
City: Honolulu	TAT Requested (da		Dav													A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
State, Zip: Hawaii 96813	Compliance Project				П		io ii							11		D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone: 808-954-4512 / 770-331-0794	PO #:						ry)-em									F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S = H2SO4 T - TSP Dode	ahydrate
Email: Walson Tanji (watson.tanji @ aecom.com)/ Mark Kromis (mark.kromis @ aecom.com)	WO #:			_	or No	<u>@</u>	yemo					X				I - Ice J - DI Water	U - Acetone V - MCAA	Janyurate
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No	8 or 1	Z-BUIO)			1/2	3				containers	K - EDTA L - EDA	W - pH 4-5 Z - other (spec	city)
Site: RHSF	SSOW#:				Sampl	SD (Y) Z /GI		1	1					oj cor	Other:		
Sample Identification	Sample Date	Sample Time		Matrix (Wewater, Secolid, O-westered, BT=Tioous, AnAir)	Field Filtered		ou ist_uni_dr_us/ z-(z-bulozyelnoxyy-einano	1	2						Total Number	Special	Instructions/N	lote:
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Possible Hazard Identification										may	be as:	sessed i	f sampl			d longer than	1 month)	
Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radiolog					Return				Dis	oosal By	Lab		Archi	ve For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	/el 1or2)=se	TAT abov	e. DoD Stage	e 4 S	Specia	al instr	uctions	s/QC F	Require	ments	: DOD	2SM pro	ject.				
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Client Information	Samplor: Mat-	+ Yim		Lab P	M: ne Wa	lkor						Camer 1		g No(s)):			COC No: 2311AFEA01		_
Client Contact:				E-Mai		ikei	_					State of		_		_		Page:		
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Company: AECOM			PWSID:						Ana	lysis	Requ	ueste	d					Job #:		
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City: Honolulu	TAT Requested (da	Rush - 5	5 Day															A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	
State, Zip: Hawaii 96813	Compliance Project	ct: A Yes	ΔNo			Panol						ļ					-	D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3	
Phone: 808-954-4512 / 770-331-0794	PO#:				6	xy)-eth			İ		~		\forall					G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	0
Email: Watson Tanji (watson.tanji @aecom.com)/ Mark Kromis (mark.kromis @aecom.com)	WO #:				s or No	cyetho				4	27	1						I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810				وَ اعْ	e g			4	¥.							containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	
Site: RHSF	SSOW#:	-			Samp	D5/2-		K									o jo	Other:		
Sample Identification	Sample Date	Sample Time			Field Filtered Sample	<u>a</u>		/		_	_						Total Number	Special Ins	structions/Note:	
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Possible Hazard Identification Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B Unk	nown - Rad	liological			38		visp eturn	rosai (To Cl	(A 1e lient	e may	De as	sesse sposal	By L	ampi ab	es are	e ret □ _A	aine rchi	d longer than 1 . /e For	monτη) Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar	vel 1or2)=se	e TAT abo	ve. DoD Stag	e Sp					Require										
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								1	/										Ver: 01/16/2019	

Client: AECOM Job Number: 580-133679-1

Login Number: 133679 List Source: Eurofins Seattle

List Number: 1

Creator: Johnson, Corey M

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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?	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	

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