ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 3/17/2023 1:17:52 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-124531-1

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: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-124531-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE Client: AECOM

Project: Red Hill - AFFF Assessment Sampling Report Number: 580-124531-1

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

Six samples were received on 3/10/2023 1:00 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 2.7° 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-RHMW12A-WGN01LF-2303W1 (580-124531-1), AF-RHMW12A-WGFD01LF-2303W1 (580-124531-2), AF-RHMW225401-WGN01B-2303W1 (580-124531-3), AF-RHMW10-WGN01LF-2303W1 (580-124531-4), AF-RHMW16-WGN01LF-2303W1 (580-124531-5) and AF-HDMW225303-WGN01LF-2303W1 (580-124531-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/14/2023 and 03/15/2023.

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: 580-124531-1

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
POL Present Over the tier

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

Eurofins Seattle

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2303W1 Lab Sample ID: 580-124531-1

Date Collected: 03/06/23 10:30 Matrix: Water

Date Received: 03/10/23 13:00

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

Analyte	Result Qualifie	r LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 11		1.1 mg/L			03/14/23 21:00	

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2303W1 Lab Sample ID: 580-124531-2

Date Collected: 03/06/23 10:30 Matrix: Water

Date Received: 03/10/23 13:00

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			03/14/23 22:18	1	

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2303W1 Lab Sample ID: 580-124531-3

Date Collected: 03/08/23 11:25 Matrix: Water

Date Received: 03/10/23 13:00

Method: SW846 8015C GLY - 0	Glycols- Dire	ect Injecti	on (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			03/15/23 00:15	1

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2303W1 Lab Sample ID: 580-124531-4

Date Collected: 03/07/23 12:35 Matrix: Water

Date Received: 03/10/23 13:00

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxvethoxv)ethanol	3.0	U M	5.0	1.1	ma/L			03/15/23 00:38	1

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2303W1 Lab Sample ID: 580-124531-5

Date Collected: 03/06/23 13:15 Matrix: Water

Date Received: 03/10/23 13:00

Method: SW846 8015C GLY - G	lycols- Dir	ect Injection	on (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxvethoxv)ethanol	3.0	U M	5.0	1.1	ma/L			03/15/23 01:02	1

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2303W1 Lab Sample ID: 580-124531-6

Date Collected: 03/07/23 10:15 Matrix: Water

Date Received: 03/10/23 13:00

Method: SW846 8015C GLY - 0	Glycols- Dir	ect Injectio	n (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			03/15/23 01:25	1

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Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-767579/12 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 767579

	MB	MB								
Analyte	Result	Qualifier	LOQ	DL U	nit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	UM	5.0	1.1 m	ng/L			03/14/23 15:42	1	

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 680-767579/1006 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 767579

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	20.0	22.2		mg/L		111	50 - 150	

Lab Sample ID: LCSD 680-767579/7 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 767579

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	15.9		mg/L		79	50 - 150	33	50

Lab Sample ID: 580-124531-1 MS Client Sample ID: AF-RHMW12A-WGN01LF-2303W1 **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 767579

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	3.0	U	20.0	18.8		mg/L		94	50 - 150	

Lab Sample ID: 580-124531-1 MSD Client Sample ID: AF-RHMW12A-WGN01LF-2303W1

Matrix: Water

Analysis Batch: 767579

	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	U	20.0	21.3		mg/L		107	50 - 150	12	50

3/17/2023

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 580-124531-1

Matrix: Water

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2303W1

Lab Sample ID: 580-124531-1 Date Collected: 03/06/23 10:30 **Matrix: Water**

Date Received: 03/10/23 13:00

Client: AECOM

Batch Dilution Ratch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab Total/NA 8015C GLY JCK EET SAV 03/14/23 21:09 Analysis 767579

Client Sample ID: AF-RHMW12A-WGFD01LF-2303W1 Lab Sample ID: 580-124531-2

Date Collected: 03/06/23 10:30 Date Received: 03/10/23 13:00

Batch Batch Dilution Batch **Prepared** Number Analyst **Prep Type** Type Method Run **Factor** Lab or Analyzed 03/14/23 22:18 Total/NA Analysis 8015C GLY 767579 JCK EET SAV

Client Sample ID: AF-RHMW225401-WGN01B-2303W1

Lab Sample ID: 580-124531-3 Date Collected: 03/08/23 11:25 **Matrix: Water**

Date Received: 03/10/23 13:00

Batch Batch Dilution Batch Prepared Method or Analyzed **Prep Type Factor Number Analyst** Type Run Lab 03/15/23 00:15 EET SAV Total/NA Analysis 8015C GLY 767579 JCK

Client Sample ID: AF-RHMW10-WGN01LF-2303W1 Lab Sample ID: 580-124531-4

Date Collected: 03/07/23 12:35 **Matrix: Water**

Date Received: 03/10/23 13:00

Batch Batch Dilution Batch Prepared **Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 767579 JCK EET SAV 03/15/23 00:38 Total/NA

Client Sample ID: AF-RHMW16-WGN01LF-2303W1 Lab Sample ID: 580-124531-5

Date Collected: 03/06/23 13:15 **Matrix: Water**

Date Received: 03/10/23 13:00

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 03/15/23 01:02 Total/NA Analysis 8015C GLY 767579 JCK **EET SAV**

Lab Sample ID: 580-124531-6 Client Sample ID: AF-HDMW225303-WGN01LF-2303W1

Date Collected: 03/07/23 10:15 **Matrix: Water**

Date Received: 03/10/23 13:00

Ratch Dilution Batch **Prepared** Batch **Prep Type** Type Method Run Factor **Number Analyst** or Analyzed Lab 03/15/23 01:25 Total/NA Analysis 8015C GLY 767579 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: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority ANAB		rogram ept. of Defense ELAP	L2463	Expiration Date 09-22-24
The following analyte the agency does not	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol	

Eurofins Seattle

Sample Summary

Client: AECOM Job ID: 580-124531-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-124531-1	AF-RHMW12A-WGN01LF-2303W1	Water	03/06/23 10:30	03/10/23 13:00
580-124531-2	AF-RHMW12A-WGFD01LF-2303W1	Water	03/06/23 10:30	03/10/23 13:00
580-124531-3	AF-RHMW225401-WGN01B-2303W1	Water	03/08/23 11:25	03/10/23 13:00
580-124531-4	AF-RHMW10-WGN01LF-2303W1	Water	03/07/23 12:35	03/10/23 13:00
580-124531-5	AF-RHMW16-WGN01LF-2303W1	Water	03/06/23 13:15	03/10/23 13:00
580-124531-6	AF-HDMW225303-WGN01LF-2303W1	Water	03/07/23 10:15	03/10/23 13:00

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1187-00-15 Phone: Rns-054-4512 / 770-331-0794	PO #:			20.00							G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	:# OM			CALCULATE SECTION	SOL-ROSERVIE					OF TOTAL PROPERTY.	J - DI Water K - EDTA	V - MCAA W - pH 4-5	
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eurofins Environment Testing America

Chain of Custody Record

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

Eurofins FGS, Seattle 5755 8th Street East	Chain of Custody Record	ustody Re	ecord		🛟 eurofins Environment Testing America	
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Client Information Client Contact:	100	E-Mail: M.Ela	E-Mail: M.Elaine.Walker@EurofinsET.com	Hawaii	Page 1 of 1 Job #:	Т
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om)/ Mark Kromis (mark.kromis@aecom.com)	:# OM		ON 10	rienle	J - DI Water	
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Eurofins FGS, Seattle		curofins Environment Testing
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Eurofins FGS, Seattle 5755 8th Street East	Client Information	Client Contact:	Company: Address: 1001 Bishop St. Suite 1600	City: Honolulu State, Zip: Hawaii 96813	Phone: 808-954-4512 / 770-331-0794 Email:	Watson Lahji (Watson Lahji (Wa	Sie: RHSF	Sample Identification	D AF-RHMW16-WGN01LF-2303W1	e 19 c	of 22				Identification	V, Other (specify)	Empty Kit Relinquished by: Relinquished by:		Relinquistreu by.

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Eurotins rG3, Seattle 5755 8th Street East Taroma WA 98424	Chain of Custody Record	United AND: oil	- 27574201 - 27574201 GOC No:
	Sample Committee Can be Walker	Carrer Tracking Nucs. FedEx State of Origin:	2303W1AFEA04 Page:
Client Information Client Contact	-438-77/0		Page 1 of 1 Job #:
Сотралу:	PWSID:	Analysis Requested	129
ONG A SECTION OF THE PROPERTY	Due Date Requested: see subcontract		A - HCL M - Hexane B - NaOH N - None C
Top of Suite 1000	TAT Requested (days): Rush - ASAP	lon	D - Nitric Acid P - Na204S E - NaHSO4 Q - Na2SO3
	Compliance Project: Δ Yes Δ No	othe-(vy	F - MeOH R - Na255203 G - Amchlor S - H2SO4 T TSD Dodeonyvorate
Phone 1900 to 770 334,07204	(ON)	S S S S S S S S S S S S S S S S S S S	H - Ascorbic Acid I - Ice
om)/ Mark Kromis (mark.kromis@aecom.com)	O SƏA	pnioxy	K-EDTA W-pH4-5 L-EDA Z-other (specify)
		-2)-2.	Other:
	San	GGa ⁻ 16	
RHSF	Sample Matrix Construction Type (W=water, LT)	SM m1o ² Del_C	
-	티	3108	Special Instructionismore:
Sample Identification	Preservation Code:		n
MAF-HDMW225303-WGN01LF-2303W1	317/73 1015 G W N	<	
22			
	,		
		ee may be assessed if samples are re	etained longer than 1 month)
Possible Hazard Identification Skin Irritant		Usposal by Lab Return To Client Disposal by Lab Return To Client Disposal by Lab Stage Special Instructions/QC Requirements: DOD QSM project.	
Ņ.	Prelim data (Level 10tz)-see Inc. account 4 report standard TAT. AECOM FOUIS EDD.	Method of Shipment:	l
Empty Kit Relinquished by:	_ ≥.	Received by: AMASON	3 430
2	(2) (2)	Received by:	7 (350 Company
Reinquished by:	Company	Received by:	7 0
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) C and Cure Toursers	Ž

Client: AECOM Job Number: 580-124531-1

Login Number: 124531 List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

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

Client: AECOM Job Number: 580-124531-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 03/10/23 02:48 PM

Creator: Harley, Tynisha

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	

True

True

N/A

Eurofins Seattle

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.