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PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 5/9/2023 10:27:47 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-126724-1

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

Generated 5/9/2023 10:27:47 AM

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: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126724-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126724-1

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

Two samples were received on 5/2/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° 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-RHMW03-WGN01LF-2304W4 (580-126724-1) and AF-RHMW02-WGN01LF-2304W4 (580-126724-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/05/2023.

The continuing calibration verification (CCV) associated with batch 680-777037 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.

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

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Eurofins Seattle 5/9/2023

Definitions/Glossary

Client: AECOM Job ID: 580-126724-1

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	hese 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)

EDI 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

Eurofins Seattle

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Client Sample Results

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2304W4 Lab Sample ID: 580-126724-1

Date Collected: 04/27/23 11:25 Matrix: Water

Date Received: 05/02/23 10:30

	Method: SW846 8015C	GLY	- Glycols-	Direct Injection	(GC/FID)
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Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 UMO	5.0	1.1 mg/l			05/05/23 00:56	1	

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Client Sample Results

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Lab Sample ID: 580-126724-2

Date Collected: 04/27/23 09:55 Matrix: Water

5.0

1.1 mg/L

Date Received: 05/02/23 10:30

2-(2-Butoxyethoxy)ethanol

Method: SW846 8015C GLY - 0	Slycols- Direct Injection	(GC/FID)				
Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed

3.0 U Q

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Dil Fac

05/05/23 01:20

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QC Sample Results

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-777037/16 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 777037

MB MB Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte D Prepared 5.0 1.1 mg/L 05/04/23 23:24 2-(2-Butoxyethoxy)ethanol 3.0 U M

Lab Sample ID: LCS 680-777037/12 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 777037

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 23.3 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 116

Lab Sample ID: LCSD 680-777037/13 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 777037

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 21.8 109 50 - 150 mg/L

Lab Sample ID: 580-126724-2 MS Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 777037

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U Q 20.0 21.7 mg/L 109 50 - 150

Lab Sample ID: 580-126724-2 MSD Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 777037

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 UQ 20.0 25.4 127 mg/L 50 - 150 16 50

5/9/2023

Lab Chronicle

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2304W4

Lab Sample ID: 580-126724-1 **Matrix: Water**

Date Collected: 04/27/23 11:25 Date Received: 05/02/23 10:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number Analyst or Analyzed Type Run Lab

05/05/23 00:56 Total/NA Analysis 8015C GLY 777037 GEM **EET SAV**

Client Sample ID: AF-RHMW02-WGN01LF-2304W4 Lab Sample ID: 580-126724-2 Date Collected: 04/27/23 09:55 **Matrix: Water**

Date Received: 05/02/23 10:30

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	777037 GEM	EET SAV	05/05/23 01:20

Laboratory References:

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

Accreditation/Certification Summary

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

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

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

Eurofins Seattle

5/9/2023

Sample Summary

Client: AECOM Job ID: 580-126724-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126724-1	AF-RHMW03-WGN01LF-2304W4	Water	04/27/23 11:25	05/02/23 10:30
580-126724-2	AF-RHMW02-WGN01LF-2304W4	Water	04/27/23 09:55	05/02/23 10:30

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Chain of Custody Record

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Chain of Custody Record

eurofins Environment Testing

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Eurofins FGS, Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Environment Testing America

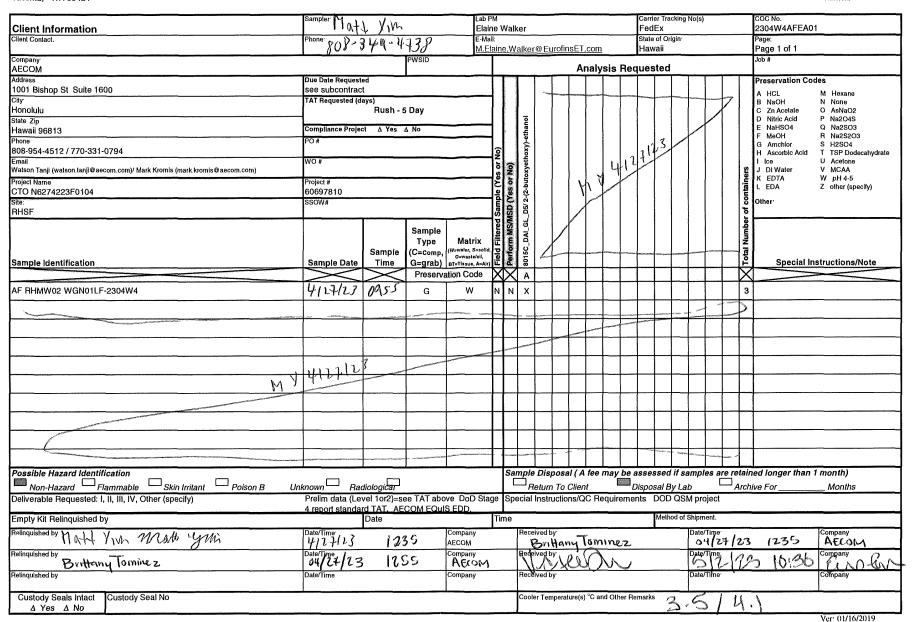
Client Information						Lab PM: Elaine Walker							Carrier Tracking No(s) FedEx					COC No: 2304W4AFEA02	
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Relinguished by Witham Tomiws	Date/Time 94/27/23	125	SS	AEC OY	М				<u>Ne</u>	\mathcal{O}		·			Date/Tic	Care 1	\mathcal{U}^2	3 10.30	Company
Relinquished by	Date/Time *			Company			Receiv	ved by							Date/Tir	ne.			Company
Custody Seals Intact Custody Seal No Δ Yes Δ No				,		ľ	Coole	r Tempei	rature(s) °C an	d Other	Rema	rks.	3, 8	51	4	, i		
A 100 A NO													64	F C.			/ \		Ver [.] 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Environm nt Tc ting America



5/9/2023

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Client: AECOM Job Number: 580-126724-1

Login Number: 126724 List Source: Eurofins Savannah List Number: 2 List Creation: 05/03/23 09:47 AM

Creator: Drake, Victoria

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	