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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/7/2023 8:51:55 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-125378-1

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

Generated 4/7/2023 8:51:55 AM

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: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

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Case Narrative

Client: AECOM Job ID: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125378-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125378-1

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 3/29/2023 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 0.4° 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-RHMW04-WGN01LF-2303W4 (580-125378-1) and AF-RHMW06-WGN01LF-2303W4 (580-125378-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/05/2023.

The closing continuing calibration verification (CCV) associated with batch 680-771525 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 680-771525/16).

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: 580-125378-1

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)

EDL Estimated Detection 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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Client Sample Results

Client: AECOM Job ID: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2303W4 Lab Sample ID: 580-125378-1

Date Collected: 03/27/23 10:40 Matrix: Water

Date Received: 03/29/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UMQ	5.0	1.1 mg/l			04/05/23 16:12	1

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Client Sample Results

Client: AECOM Job ID: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2303W4 Lab Sample ID: 580-125378-2

Date Collected: 03/27/23 12:35 Matrix: Water

Date Received: 03/29/23 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-Butoxvethoxv)ethanol	3.0	UMQ	5.0	1.1	ma/L			04/05/23 16:35	1

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QC Sample Results

Client: AECOM Job ID: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-771525/9 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 771525

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte D Prepared 3.0 U M 5.0 1.1 mg/L 04/05/23 15:48 2-(2-Butoxyethoxy)ethanol

Lab Sample ID: LCS 680-771525/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 771525

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 22.5 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 112

Lab Sample ID: LCSD 680-771525/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 771525

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 20.4 102 50 - 150 mg/L

Lab Sample ID: 580-125378-2 MS Client Sample ID: AF-RHMW06-WGN01LF-2303W4 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 771525

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 UMQ 20.0 24.4 mg/L 122 50 - 150

Lab Sample ID: 580-125378-2 MSD

Matrix: Water

Analysis Batch: 771525

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 UMQ 20.0 24.6 123 50 - 150 50 mg/L

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Prep Type: Total/NA

Client Sample ID: AF-RHMW06-WGN01LF-2303W4 Prep Type: Total/NA

Lab Chronicle

Client: AECOM Job ID: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2303W4 Lab Sample ID: 580-125378-1

Date Collected: 03/27/23 10:40 Matrix: Water

Date Received: 03/29/23 10:30 Matrix: Water

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 04/05/23 16:12 Total/NA Analysis 8015C GLY 771525 JCK **EET SAV**

Client Sample ID: AF-RHMW06-WGN01LF-2303W4 Lab Sample ID: 580-125378-2

Date Collected: 03/27/23 12:35 Matrix: Water

Date Received: 03/29/23 10:30

Batch Batch **Dilution** Batch Prepared **Prep Type** Type Method Run Factor **Number Analyst** Lab or Analyzed 04/05/23 16:35 Total/NA Analysis 8015C GLY 771525 JCK EET SAV

Laboratory References:

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

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Accreditation/Certification Summary

Client: AECOM Job ID: 580-125378-1

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
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,		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: 580-125378-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-125378-1	AF-RHMW04-WGN01LF-2303W4	Water	03/27/23 10:40	03/29/23 10:30
580-125378-2	AF-RHMW06-WGN01LF-2303W4	Water	03/27/23 12:35	03/29/23 10:30

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Chain of Custody Record

eurofins Environment Testing America

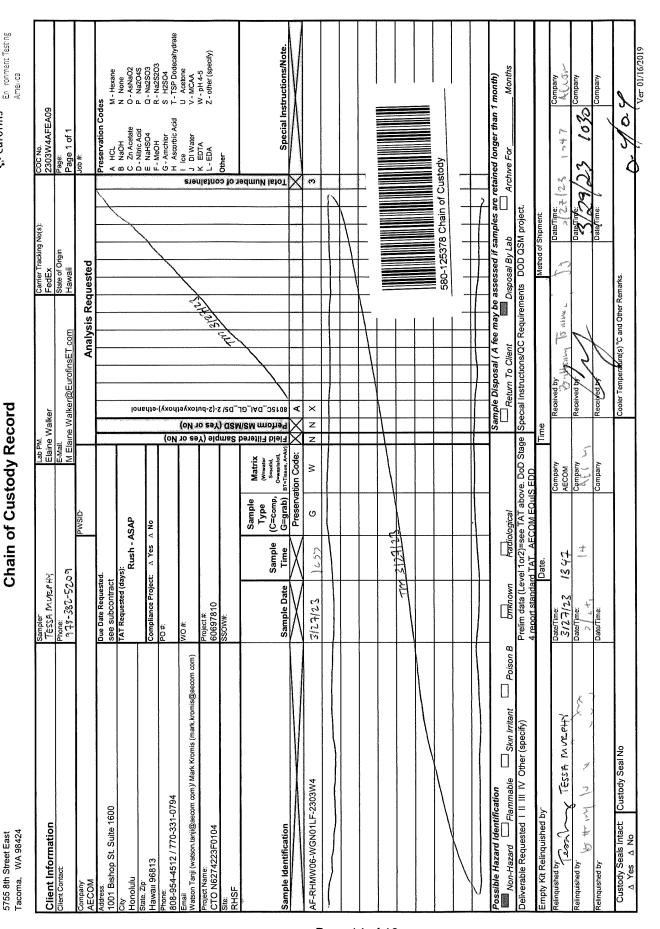
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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En ronment Testing

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Eurofins FGS, Seattle

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chai	Chain of Custody Record	tody Re	cord			💸 eurofins	Env ronm rt Testing America
Client Information	Sampler TESSA MURPHY		Lab PM: Elaine \	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	ig No(s):	COC No: 2303W4AFEA08	
act	Phone: 978-381-5209		E-Mail: M Elaın	e Walker@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Company AECOM		PWSID		Analys	Analysis Requested		Job #:	
Address: 1001 Bishop St. Surte 1600	Due Date Requested see subcontract							leS: M - Hexane
	TAT Requested (days). Rus). Rush - ASAP		[C			B - NaOH C - Zn Acetate	N - None O - AsNaO2
State Zip Hawaii 96813	Compliance Project: A Yes	es ∆ No		oueuja				P - Na2048 Q - Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO#:		(0)		<u>\</u>			R - NaZSZO3 S - H2SO4 T - TSP Doderahydrate
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:		10 56	(on a	5			U - Acetone V - MCAA
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	82/60	23						
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Empty Kit Relinquished by	4 lebbit statutato LAL. Date:		Time	ବ୍ୟ	Method o	Method of Shipment:		
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Relinquished by	Date/Time:) }	Company AECs ~	Received by:		22/20/1/20	(030	Company
	Date/Time:		Company	Received by:		Date/Time: ¹	,	Company
Custody Seals Infact: Custody Seal No				Cooler Temperature(s) "C and Other Remarks:	Other Remarks:	20	1/0.4	
								Ver 01/16/2019

Client: AECOM Job Number: 580-125378-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 03/31/23 07:08 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	
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?	N/A	
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	

True

N/A

Samples do not require splitting or compositing.

Residual Chlorine Checked.