

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 2/14/2023 1:27:08 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123182-1

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



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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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Case Narrative

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Job ID: 580-123182-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling

Report Number: 580-123182-1

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

The samples were received on 02/07/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.9 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-2301W4 (580-123182-1), AF-RHMW17D-WGN01LF-2301W4 (580-123182-2), AF-RHMW17D-WQEB01-2301W4 (580-123182-3), AF-RHMW17D-WQFB01-2301W4 (580-123182-4), AF-RHMW12A-WGN01LF-2301W5 (580-123182-5), AF-RHMW12A-WGFD01LF-2301W5 (580-123182-6) and AF-RHMW225401-WGN01B-2301W4 (580-123182-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/10/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-123182-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)
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

Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW17-WGN01LF-2301W4

Lab Sample ID: 580-123182-1

Date Collected: 01/27/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 16:37	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
- 9
- 10
- 11
- 12

Client Sample Results

Client: AECOM

Job ID: 580-123182-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2301W4

Lab Sample ID: 580-123182-2

Date Collected: 01/27/23 11:30

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 17:47	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW17D-WQEB01-2301W4

Lab Sample ID: 580-123182-3

Date Collected: 01/27/23 13:20

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 18:11	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW17D-WQFB01-2301W4

Lab Sample ID: 580-123182-4

Date Collected: 01/27/23 09:35

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 18:34	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW12A-WGN01LF-2301W5

Lab Sample ID: 580-123182-5

Date Collected: 01/30/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 18:57	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW12A-WGFD01LF-2301W5

Lab Sample ID: 580-123182-6

Date Collected: 01/30/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

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 M	5.0	1.1	mg/L			02/10/23 19:21	1

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW225401-WGN01B-2301W4

Lab Sample ID: 580-123182-7

Date Collected: 01/26/23 12:00

Matrix: Water

Date Received: 02/07/23 11:20

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 H M	5.0	1.1	mg/L			02/10/23 19:44	1

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- 10
- 11
- 12

QC Sample Results

Client: AECOM
 Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

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

Lab Sample ID: MB 680-762871/10
Matrix: Water
Analysis Batch: 762871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/10/23 16:14	1

Lab Sample ID: LCS 680-762871/6
Matrix: Water
Analysis Batch: 762871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	19.8		mg/L		99	50 - 150

Lab Sample ID: LCSD 680-762871/7
Matrix: Water
Analysis Batch: 762871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	18.4		mg/L		92	50 - 150	7	50

Lab Sample ID: 580-123182-1 MS
Matrix: Water
Analysis Batch: 762871

Client Sample ID: AF-RHMW17-WGN01LF-2301W4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	23.0		mg/L		115	50 - 150

Lab Sample ID: 580-123182-1 MSD
Matrix: Water
Analysis Batch: 762871

Client Sample ID: AF-RHMW17-WGN01LF-2301W4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	19.9		mg/L		100	50 - 150	15	50

Lab Chronicle

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

Client Sample ID: AF-RHMW17-WGN01LF-2301W4

Lab Sample ID: 580-123182-1

Date Collected: 01/27/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 16:37

Client Sample ID: AF-RHMW17D-WGN01LF-2301W4

Lab Sample ID: 580-123182-2

Date Collected: 01/27/23 11:30

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 17:47

Client Sample ID: AF-RHMW17D-WQEB01-2301W4

Lab Sample ID: 580-123182-3

Date Collected: 01/27/23 13:20

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 18:11

Client Sample ID: AF-RHMW17D-WQFB01-2301W4

Lab Sample ID: 580-123182-4

Date Collected: 01/27/23 09:35

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 18:34

Client Sample ID: AF-RHMW12A-WGN01LF-2301W5

Lab Sample ID: 580-123182-5

Date Collected: 01/30/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 18:57

Client Sample ID: AF-RHMW12A-WGFD01LF-2301W5

Lab Sample ID: 580-123182-6

Date Collected: 01/30/23 09:50

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 19:21

Client Sample ID: AF-RHMW225401-WGN01B-2301W4

Lab Sample ID: 580-123182-7

Date Collected: 01/26/23 12:00

Matrix: Water

Date Received: 02/07/23 11:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 19:44

Laboratory References:

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

Eurofins Seattle

Accreditation/Certification Summary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123182-1

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	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol



Sample Summary

Client: AECOM

Job ID: 580-123182-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123182-1	AF-RHMW17-WGN01LF-2301W4	Water	01/27/23 09:50	02/07/23 11:20
580-123182-2	AF-RHMW17D-WGN01LF-2301W4	Water	01/27/23 11:30	02/07/23 11:20
580-123182-3	AF-RHMW17D-WQEB01-2301W4	Water	01/27/23 13:20	02/07/23 11:20
580-123182-4	AF-RHMW17D-WQFB01-2301W4	Water	01/27/23 09:35	02/07/23 11:20
580-123182-5	AF-RHMW12A-WGN01LF-2301W5	Water	01/30/23 09:50	02/07/23 11:20
580-123182-6	AF-RHMW12A-WGFD01LF-2301W5	Water	01/30/23 09:50	02/07/23 11:20
580-123182-7	AF-RHMW225401-WGN01B-2301W4	Water	01/26/23 12:00	02/07/23 11:20

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Chain of Custody Record

Client Information		Lab PM: Elaine Walker		Carrier Tracking No(s): 2301W4AFE10	
Client Contact: Andy Young		E-Mail: M.Elaine.Walker@EurofinsET.com		Page: Page 1 of 1	
Company: AECOM		PWSID:		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: See subcontract		Total Number of Containers: 3	
City: Honolulu		TAT Requested (days): Rush - ASAP		Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Phone: 808-954-4512 / 770-331-0794		PO #:		Matrix (W=Water, S=Solid, O=Water, B=Biological)	
Email: Watson.Tanji@aeom.com / Mark.Kromis@aeom.com		WO #:		Preservation Code:	
Project Name: CTO N627423F0104		Project #: 60697810		Sample Type (C=Comp, G=grab)	
Site: RHSF		SSOW#:		Sample Time	
Sample Identification		Sample Date		Sample Date	
AF-RHMW17-WGN01LF-2301W4		1/27/23		0950	
Possible Hazard Identification		Sample Date		Sample Date	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Date		Sample Date	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		Sample Date	
Empty Kit Relinquished by:		Sample Date		Sample Date	
Relinquished by: Andy Young		Sample Date: 1/27/23		Sample Date: 1300	
Relinquished by: Miranda DeBarmo		Sample Date: 1/30/23		Sample Date: 1245	
Relinquished by:		Sample Date:		Sample Date:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 21.9 - 19.4	



Client Information Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RH5F		Lab PII: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsEL.com Carrier Tracking No(s): FedEX State of Origin: Hawaii Job #:	
Due Date Requested: TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: _____ WO #: _____ Project #: 60697810 SSO#: _____		COC No: 2301W4AFE11 Page: Page 1 of 1 Job #:	
Analysis Requested Total Number of containers: 3			
Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH #5 X - EDTA Y - EDA Z - other (specify)			
Special Instructions/Note:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4 report standard TAT. AECOM.EQUIS.FDD Special Instructions/QC Requirements: DOD QSM project Date: 1/27/23 Date: 1/30/23 Date: 1/27/23			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: <i>Andy Young</i> Date: 1/27/23 / 1300 Relinquished by: <i>Miranda DeGarmo</i> Date: 1/30/23 1245 Relinquished by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record

Client Information Client Contact: NOAH TURNER Phone: (781) 360-4777 Company: AECOM		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): FedEx State of Origin: Hawaii		COC No: 2301W5AFE05 Page: Page 1 of 1 Job #:	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@eurofins.com / Mark.Kromis@eurofins.com Project Name: CTO N6274223F0104 Site: RHSF		PWSID: Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: Δ Yes Δ No PO #: 60697810 WO #: 60697810 Project #: 60697810 SSO#:		Analysis Requested Total Number of Containers: 3 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification AF-RHMW12A-WGN01LF-2301W5 AF-RHMW12A-WGFD01LF-2301W5 NT 1/30/2023		Sample Date 1/30/2023 0950 1/30/2023 0950		Sample Type (C=Comp, G=grab) G G	
Matrix (W=water, S=solid, O=soil, I=ice, A=air, L=leachate, P=pulver) W W		Preservation Code: W W		Field Filtered Sample (Yes or No) N N N	
Perform MS/MSD (Yes or No) N N N		8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol A X X		Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For: _____ Months		Deliverable Requested: I, II, III, IV, Other (specify) Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EquiS EDD.	
Empty Kit Relinquished by: Relinquished by: NOAH TURNER Relinquished by: JAMES MASON Relinquished by:		Date/Time: 1/30/2023 / 1300 Date/Time: 1/30/23 1320 Date/Time:		Method of Shipment: Received by: James Mason Date/Time: 1/30/23 1300 Company: AECOM	
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Date/Time: 2-7-23 Date/Time: 11:20 Company:	



Chain of Custody Record

Client Information Sampler: <i>Hunter Nishikawa</i> Phone: <i>808-286-5364</i>		Lab Pk: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com	Carrier Tracking No(s): FedEX State of Origin: Hawaii	COC No: 2301W4AFE07 Page: 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: VO #: Project #: SSOW #:		Analysis Requested 8015C_DAL_GL_DS/2-butylethoxy-ethanol Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Preservation Code: A Total Number of Containers: 3			
Address: 1001 Bishop St, Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aeacom.com / Mark.Kromis@aeacom.com Project Name: CTO N627423F0104 Site: RHSF		Sample Date <i>1/26/23</i>	Sample Time <i>12:00</i>	Sample Type (C=comp, G=grab) G	Matrix (W=water, S=solid, O=soil, BT=tissue, J=juice)
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: Relinquished by: <i>Hunter Nishikawa</i> Relinquished by: James Mason Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: DOD QSM project 4 report standard TAT. AECOM EQMS EDD Date: _____ Time: _____ Method of Shipment:			
Relinquished by: <i>Hunter Nishikawa</i> Date/Time: <i>1/26/23 1530</i>		Received by: James Mason Date/Time: <i>1/26/23 1530</i> Company: AECOM			
Relinquished by: James Mason Date/Time: <i>1/30/23 1245</i>		Received by: <i>Tyghusha Harvey</i> Date/Time: <i>2-7-23</i> Company: AECOM			
Relinquished by:		Received by: Date/Time: <i>11:20</i> Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <i>4.9 - 4.9</i>			



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-123182-1

Login Number: 123182

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

List Creation: 02/09/23 12:16 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Emily Wengrowski

From: Abbott, Katie <katie.abbott@aecom.com>
Sent: Friday, February 10, 2023 2:02 PM
To: Emily Wengrowski; Landers, Brant; Anthony, Jason; Kromis, Mark; KaaihiliChoy, Terri Ann; Tanji, Watson
Subject: RE: Eurofins Environment Testing Northwest, LLC Sample Login Confirmation files from 580-123182 Red Hill - AFFF Assessment Sampling

EXTERNAL EMAIL*

Hi Emily,

Please correct the ID or 580-123182-7. It should be RHMW, not HDMW.

Also, can you please provide a copy of the COCs in your confirmation emails?

Thanks,
Katie

From: Emily Wengrowski <emily.wengrowski@et.eurofinsus.com>
Sent: Wednesday, February 8, 2023 10:31 AM
To: Landers, Brant <Brant.Landers@aecom.com>; Anthony, Jason <Jason.Anthony@aecom.com>; Abbott, Katie <katie.abbott@aecom.com>; Kromis, Mark <Mark.Kromis@aecom.com>; KaaihiliChoy, Terri Ann <Terri.Choy@aecom.com>; Tanji, Watson <watson.tanji@aecom.com>
Subject: Eurofins Environment Testing Northwest, LLC Sample Login Confirmation files from 580-123182 Red Hill - AFFF Assessment Sampling

Hello,

Attached, please find the Sample Confirmation files for job 580-123182; Red Hill - AFFF Assessment Sampling

Receipt

The samples were received on 2/7/2023 11:20 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 4.9^o C.

Please feel free to contact me or your PM, Marie Walker, if you have any questions.

Thank you.

Emily E Wengrowski
Project Manager Assistant

Eurofins Seattle

E-mail: emily.wengrowski@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [580-466496]
Attachments: 1

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

