



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 12/30/2022 10:26:51 AM Revision 1

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-121247-1

Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

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



Generated
12/30/2022 10:26:51 AM
Revision 1

Authorized for release by
Marie Walker, Senior Project Manager
M.Elaine.Walker@et.eurofinsus.com
(253)248-4972



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	11
Chronicle	12
Certification Summary	13
Sample Summary	14
Chain of Custody	15

Case Narrative

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

Job ID: 580-121247-1

Job ID: 580-121247-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling

Report Number: 580-121247-1

REVISION 1: DECEMBER 30, 2022

Report revised to correct the client IDs for samples 1, 4, and 5 per client revised COC.

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.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs 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

Five samples were received on 12/14/2022 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 5.1° 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.

GLYCOLS - 2-(2-BUTOXYETHOXY)ETHANOL

Samples AF-RHMW16-WGN01B-2212W1 (580-121247-1), AF-RHMW06-WGN01B-2212W1 (580-121247-2), AF-RHMW06-WQEB01-2212W1 (580-121247-3), AF-RHMW10-WGN01B-2212W1 (580-121247-4) and AF-RHMW12A-WGN01B-2212W1 (580-121247-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 12/16/2022 and 12/17/2022.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-121247-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
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: 580-121247-1

Client Sample ID: AF-RHMW16-WGN01B-2212W1

Lab Sample ID: 580-121247-1

Date Collected: 12/10/22 15:30

Matrix: Water

Date Received: 12/14/22 13:33

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	5.0	1.1	mg/L			12/17/22 23:06	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

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

Job ID: 580-121247-1

Client Sample ID: AF-RHMW06-WGN01B-2212W1

Lab Sample ID: 580-121247-2

Date Collected: 12/08/22 15:25

Matrix: Water

Date Received: 12/14/22 13:33

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			12/16/22 21:16	1

1

2

3

4

5

6

7

8

9

10

Client Sample Results

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

Job ID: 580-121247-1

Client Sample ID: AF-RHMW06-WQEB01-2212W1

Lab Sample ID: 580-121247-3

Date Collected: 12/08/22 17:10

Matrix: Water

Date Received: 12/14/22 13:33

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			12/16/22 21:38	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

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

Job ID: 580-121247-1

Client Sample ID: AF-RHMW10-WGN01B-2212W1

Lab Sample ID: 580-121247-4

Date Collected: 12/11/22 13:35

Matrix: Water

Date Received: 12/14/22 13:33

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	5.0	1.1	mg/L			12/17/22 23:28	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Client Sample Results

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

Job ID: 580-121247-1

Client Sample ID: AF-RHMW12A-WGN01B-2212W1

Lab Sample ID: 580-121247-5

Date Collected: 12/09/22 21:45

Matrix: Water

Date Received: 12/14/22 13:33

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	5.0	1.1	mg/L			12/17/22 23:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

QC Sample Results

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

Job ID: 580-121247-1

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

Lab Sample ID: MB 680-755535/13
Matrix: Water
Analysis Batch: 755535

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	5.0	1.1	mg/L			12/16/22 20:31	1

Lab Sample ID: LCS 680-755535/6
Matrix: Water
Analysis Batch: 755535

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	22.3		mg/L		112	50 - 150

Lab Sample ID: LCSD 680-755535/7
Matrix: Water
Analysis Batch: 755535

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	23.8		mg/L		119	50 - 150	7	50

Lab Sample ID: 580-121247-2 MS
Matrix: Water
Analysis Batch: 755535

Client Sample ID: AF-RHMW06-WGN01B-2212W1
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	3.0	U J1	mg/L		0	50 - 150

Lab Sample ID: 580-121247-2 MSD
Matrix: Water
Analysis Batch: 755535

Client Sample ID: AF-RHMW06-WGN01B-2212W1
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	3.0	U J1	mg/L		0	50 - 150	NC	50

Lab Sample ID: MB 680-755698/10
Matrix: Water
Analysis Batch: 755698

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	5.0	1.1	mg/L			12/17/22 19:59	1

Lab Sample ID: LCS 680-755698/1006
Matrix: Water
Analysis Batch: 755698

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	22.8		mg/L		114	50 - 150

Lab Sample ID: LCSD 680-755698/7
Matrix: Water
Analysis Batch: 755698

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	20.7		mg/L		103	50 - 150	10	50

Eurofins Seattle

Lab Chronicle

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

Job ID: 580-121247-1

Client Sample ID: AF-RHMW16-WGN01B-2212W1

Lab Sample ID: 580-121247-1

Date Collected: 12/10/22 15:30

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:06

Client Sample ID: AF-RHMW06-WGN01B-2212W1

Lab Sample ID: 580-121247-2

Date Collected: 12/08/22 15:25

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 21:16

Client Sample ID: AF-RHMW06-WQEB01-2212W1

Lab Sample ID: 580-121247-3

Date Collected: 12/08/22 17:10

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 21:38

Client Sample ID: AF-RHMW10-WGN01B-2212W1

Lab Sample ID: 580-121247-4

Date Collected: 12/11/22 13:35

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:28

Client Sample ID: AF-RHMW12A-WGN01B-2212W1

Lab Sample ID: 580-121247-5

Date Collected: 12/09/22 21:45

Matrix: Water

Date Received: 12/14/22 13:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	755698	JCK	EET SAV	12/17/22 23:51

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 580-121247-1

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: 580-121247-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-121247-1	AF-RHMW16-WGN01B-2212W1	Water	12/10/22 15:30	12/14/22 13:33
580-121247-2	AF-RHMW06-WGN01B-2212W1	Water	12/08/22 15:25	12/14/22 13:33
580-121247-3	AF-RHMW06-WQEB01-2212W1	Water	12/08/22 17:10	12/14/22 13:33
580-121247-4	AF-RHMW10-WGN01B-2212W1	Water	12/11/22 13:35	12/14/22 13:33
580-121247-5	AF-RHMW12A-WGN01B-2212W1	Water	12/09/22 21:45	12/14/22 13:33

1

2

3

4

5

6

7

8

9

10

Chain of Custody Record



Client Information		Sample: <i>Ch. 10-22-22</i>	Lab PM: Elaine Walker	Carrier Tracking No(s):	COC No: 2212W2EU-03
Client Contact:		Phone: 252 2575993	E-Mail: M.Elaine.Walker@EurofinsET.com	FedEx	Page: Page 1 of 1
Company: AECOM		PWSID:		State of Origin: Hawaii	Job #:
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested	
City: Honolulu		TAT Requested (days): Rush - ASAP		Total Number of containers: 3	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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 4-5 X - EDTA Y - EDA Z - other (specify)	
Phone: 808-954-4512 / 808-356-5311		PO #:		Special Instructions/Note: Store ALL samples until notified by client to dispose	
Email: Watson Tanji (watson.tanji@aecom.com) / Brant Landers (brant.landiers@aecom.com)		WO #:		Barcode: 580-121247 Chain of Custody	
Project Name: CTO N6274223F0104		Project #: 60697810			
Site: RH5F		SSOW#:			
Sample Identification		Sample Date: 12-10-22 1530	Sample Type (C=comp, G=grab): G	Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes	Form MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes
AF-RHMW16-WGND1B-2212W2		Sample Time: 12-10-22 1530	Preservation Code: W	8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol	
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		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements DOD QSM project.	
Deliverable Requested I II III, IV Other (specify)		Prelim data (Level 1 or 2) = see TAT above DoD Stage 4 report standard TAT - AECOM EQUUS FDD.		Method of Shipment:	
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <i>Ch. 10-22-22</i>		Date/Time: 12-10-22 1700		Company: AECOM	
Relinquished by: <i>Ch. 10-22-22</i>		Date/Time: 12-10-22 1530		Company: AECOM	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: 5.1/5.1	



Client Information	Sampler: <u>Christina Harvath</u>	Lab PM: <u>Elaine Walker</u>	Carrier Tracking No(s): <u>2212W1EU-07</u>
Client Contact:	Phone: <u>252-259-5993</u>	E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>	Page: <u>Page 1 of 1</u>
Company: <u>AECOM</u>	Address: <u>1001 Bishop St. Suite 1600</u>	City: <u>Honolulu</u>	State of Origin: <u>Hawaii</u>
State, Zip: <u>Hawaii 96813</u>	Phone: <u>808-954-4512 / 808-356-5311</u>	Project Name: <u>CTO N6274223F0104</u>	Job #: _____
City: <u>Honolulu</u>	Compliance Project: <u>Δ Yes Δ No</u>	Site: <u>RHSE</u>	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)
Due Date Requested: <u>See subcontract</u>	TAT Requested (days): <u>Rush - ASAP</u>	Project #: <u>60697810</u>	Other: _____
PO #: _____	WO #: _____	SSOW#: _____	
Analysis Requested			
8015C_BAL_GL_DS/2-(2-butoxyethoxy)-ethanol			
Field Filtered Sample (Yes or No)			
Perform MS/MSD (Yes or No)			
Total Number of Containers			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)
AF-RHMW06-WGN01B-2212W1	12/18/22	1525	G
AF-RHMW06-WQEB01-2212W1	12/18/22	1710	G
Special Instructions/Note:			
Store ALL samples until notified by client to dispose			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Possible Hazard Identification			
Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>			
Deliverable Requested I II III IV, Other (specify) _____			
Prelim data (Level 1 or 2) - see TAT above DoD Stage _____			
4. report standard TAT - AECOM EQUIS EDD _____			
Relinquished by			
Relinquished by: <u>Christina Harvath</u>	Date/Time: <u>12/18/22</u>	Company: <u>AECOM</u>	Date/Time: <u>12/18/22</u>
Relinquished by: <u>Miranda Penning</u>	Date/Time: <u>12/14/22</u>	Company: <u>AECOM</u>	Date/Time: <u>12/14/22</u>
Relinquished by: _____	Date/Time: _____	Company: _____	Date/Time: _____
Custody Seals Intact:			
Δ Yes Δ No <u>5/1/5.1</u>			
Cooler Temperature(s) °C and Other Remarks:			
<u>5/1/5.1</u>			



Chain of Custody Record

Client Information		Sampler: <u>Andy Young</u>		Lab PM: <u>Elaine Walker</u>		Carrier Tracking No(s): <u>2212W2EU-02</u>	
Client Contact:		Phone: <u>402-871-5712</u>		E-Mail: <u>M.Elaine.Walker@EurofinsE.com</u>		Page: <u>Page 1 of 1</u>	
Company: <u>AECOM</u>		Due Date Requested: <u>See subcontract</u>		State of Origin: <u>Hawaii</u>		Job #:	
Address: <u>1001 Bishop St. Suite 1600</u>		TAT Requested (days): <u>Rush - ASAP</u>		Analysis Requested:		Preservation Codes:	
City: <u>Honolulu</u>		Compliance Project: <u>Δ Yes Δ No</u>		8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol		M - Hexane	
State/Zip: <u>Hawaii 96813</u>		PO #:		Perform MS/MSD (Yes or No)		N - None	
Phone: <u>808-954-4512 / 808-356-5311</u>		WO #:		Field Filtered Sample (Yes or No)		O - AsNaO2	
Email: <u>Watson.Tanji@aecom.com / Brant.Landers@aecom.com</u>		Project #:		Matrix		P - Na2O4S	
Project Name: <u>CTO N6274223F0104</u>		SSOW#:		W=water, S=solid, O=waste/oil, BT=Tissue, A=Air		Q - Na2SO3	
Site: <u>RHSF</u>		Sample Date: <u>12/11/22</u>		Sample Time: <u>1335</u>		R - Na2SO3	
Sample Identification: <u>AF-RHMW10-WGN01B-2212W2</u>		Sample Type: <u>G</u>		Preservation Code: <u>W</u>		S - H2SO4	
Special Instructions/Note: <u>Store ALL samples until notified by client to dispose</u>		Total Number of containers: <u>3</u>		Special Instructions/Note:		T - TSP Dodecahydrate	
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		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: <u>DOD QSM project.</u>		U - Acetone	
Deliverable Requested: <u>I II III IV, Other (specify)</u>		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM E-Quis FDD.		Method of Shipment:		V - MCAA	
Empty Kit Relinquished by:		Date/Time: _____		Date/Time: _____		W - pH 4-5	
Relinquished by: <u>Andy Young ASJ/ES</u>		Date/Time: <u>12/11/22 / 1500</u>		Date/Time: <u>12/12/22 1340</u>		Z - other (specify)	
Relinquished by: <u>Elaine Walker</u>		Date/Time: <u>12/12/22 1345</u>		Date/Time: <u>12/14/22 1030</u>		Other:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No: _____		Cooler Temperature(s) °C and Other Remarks: <u>5.1/5.1</u>		Ver: 01/16/2019	




Client Information		Sampler: CHRIS WOMACK	Lab P/W: Elaine Walker	Carrier Tracking No(s): 2212W2EU-01	QC No: 2212W2EU-01
Address: 1001 Bishop St. Suite 1600		Phone: (914) 749-9323	E-Mail: M.Elaine.Walker@EurofinsET.com	FedEX	Page: Page 1 of 1
City: Honolulu		State of Origin: Hawaii		Job #:	
State Zip: Hawaii 96813		Analysis Requested 22/14/22 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol			
Phone: 808-954-4512 / 808-356-5311					
Email: Watson.Tanji@aeacom.com / Brant.Landers@aeacom.com		Total Number of Containers: 3 Special Instructions/Note: Store ALL samples until notified by client to dispose			
Project Name: CTO N6274223F0104		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify)			
Site: RHSE		Other: 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 Z - other (specify)			
Due Date Requested: See subcontract		Form MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Matrix (W=water, S=solid, O=oil, I=infusible, A=air) W			
TAT Requested (days): Rush - ASAP		Sample Date: 12/9/22 Sample Time: 2145 Sample Type (C=comp, G=grab): G Preservation Code: W			
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Identification: AF-RHMM12A-WGN01B-2212W2 Date: 12/9/22			
PO #:		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			
WO #:		Deliverable Requested: I, II, III, IV Other (specify)			
Project #: 60697810		Prelim data (Level 1 or 2) - see TAT above DoD Stage 4 report standard TAT: AECOM EQULS FDD.			
SSOW#:		Empty Kit Relinquished by:			
Date: 12/9/22		Relinquished by: CHRIS WOMACK Relinquished by: GABRIEL ALLEN Relinquished by:			
Date/Time: 12/9/22 2300		Date/Time: 12/9/22 1340 Date/Time: 12/14/22 1030			
Date/Time: 12/9/22 1340		Date/Time: 12/14/22 1030			
Date/Time:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature (°C) and Other Remarks: 5-1/51			



Chain of Custody Record

Client Information		Sample: <i>Christina Apple</i>	Lab PM: Elaine Walker	Carrier Tracking No(s):	COC No: 2212W2EU-03
Client Contact:		Phone: 252 2575993	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: AECOM		PWSID:			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract			
City: Honolulu		TAT Requested (days): Rush - ASAP			
State, Zip: Hawaii: 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Phone: 808-954-4512 / 808-356-5311		PO #:			
Email: Watson.Tanji@aecom.com / Brant.Landers@aecom.com		WO #:			
Project Name: CTO N6274223F0104		Project #: 60697810			
Site: RH5F		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DS/z-(2-butoxyethoxy)-ethanol	Analysis Requested		Total Number of Containers	Special Instructions/Note.
								Preservation Code	Field Number		
AF-RHMW16-WGND01B-2212W2	12-10-22	1530	G	W	N	N	X			3	Store ALL samples until notified by client to dispose
 580-121247 Chain of Custody											

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>Christina Apple</i>							
Relinquished by: <i>Christina Apple</i>							
Relinquished by:							
Date/Time: 12-10-22 1700				Date/Time: 12-10-22 1340			
Company: AECOM				Company: AECOM			
Date/Time: 12-10-22 1340				Date/Time: 12-10-22 1030			
Company: AECOM				Company: AECOM			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Cooler Temperature(s) °C and Other Remarks: 5.1/5.1							



Client Information Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 808-356-5311 Email: Watson.Tanji@aecom.com / Brant.Landers@aecom.com Project Name: CTO N6274223F0104 Site: RHSE		Sampler: <u>Christina Harvate</u> Lab PM: <u>Elaine Walker</u> Phone: <u>252-259-5993</u> E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>		Carrier Tracking No(s): <u>2212W1EU-07</u> State of Origin: <u>Hawaii</u> Page: <u>Page 1 of 1</u> Job #:	
Due Date Requested: <u>See subcontract</u> TAT Requested (days): <u>Rush - ASAP</u> Compliance Project: <u>Δ Yes Δ No</u> PO #: <u> </u> WO #: <u> </u> Project #: <u>60697810</u> SSOW#: <u> </u>		Analysis Requested Total Number of Containers: <u>3</u> Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)			
Matrix: <u>8015C_BAL_GL_DS/2-(2-butoxyethoxy)-ethanol</u> Perform MS/MSD (Yes or No): <u>X</u> Field Filtered Sample (Yes or No): <u>X</u> Special Instructions/Note: <u>Store ALL samples until notified by client to dispose</u>		Special Instructions/Note: Store ALL samples until notified by client to dispose			
Sample Identification AF-RHMW06-WGN01B-2212W1 AF-RHMW06-WQEB01-2212W1		Sample Date: <u>12/18/22</u> Sample Time: <u>1525</u> Sample Type (C=comp, G=grab): <u>G</u> Preservation Code: <u>W</u>	Sample Date: <u>12/18/22</u> Sample Time: <u>1710</u> Sample Type (C=comp, G=grab): <u>G</u> Preservation Code: <u>W</u>	Total Number of Containers: <u>3</u> Special Instructions/Note: <u>Store ALL samples until notified by client to dispose</u>	
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): <u>4. report standard TAT - AECOM EQULS EDD</u> Prelim data (Level 1 or 2) - see TAT above DoD Stage: <u> </u> Special Instructions/QC Requirements: <u>DOD QSM project.</u>					
Empty Kit Reinquished by: <u> </u> Date: <u> </u>		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 <u> </u> Months			
Relinquished by: <u> </u> Date/Time: <u>12/18/22 1825</u> Company: <u>AECOM</u>		Received by: <u>Miranda DeSno</u> Date/Time: <u>12/14/22 1030</u> Company: <u> </u>			
Relinquished by: <u> </u> Date/Time: <u> </u> Company: <u> </u>		Received by: <u> </u> Date/Time: <u> </u> Company: <u> </u>			
Custody Seals Intact: <u>Δ Yes Δ No</u> Custody Seal No: <u>51/5.1</u>		Cooler Temperature(s) °C and Other Remarks: <u> </u>			



Client Information		Sampler: CHRIS WOMACK	Lab P/W: Elaine Walker	Carrier Tracking No(s): 2212W2EU-01	QC No: 2212W2EU-01
Address: 1001 Bishop St. Suite 1600		Phone: (914) 749-9323	E-Mail: M.Elaine.Walker@EurofinsET.com	FedEX	Page: Page 1 of 1
City: Honolulu		State of Origin: Hawaii		Job #:	
State Zip: Hawaii 96813		Due Date Requested: See subcontract		Analysis Requested	
Phone: 808-954-4512 / 808-356-5311		TAT Requested (days): Rush - ASAP		Preservation Codes:	
Email: Watson.Tanji@aeacom.com / Brant.Landers@aeacom.com		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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	
Project Name: CTO N6274223F0104		Project #: 60697810		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: RHSE		SSOW#:		Total Number of Containers: 3	
Sample Identification		AF-RHMM12A-WGN01B-2212W2		Special Instructions/Note: Store ALL samples until notified by client to dispose	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, I=infusible, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)
12/9/22	2145	G	W	N	N
<p>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</p> <p>Deliverable Requested: I, II, III, IV Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: CHRIS WOMACK Date/Time: 12/9/22 2300 Company: AECOM</p> <p>Relinquished by: GABRIEL ALLEN Date/Time: 12/14/22 1340 Company: AECOM</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No</p> <p>Cooler Temperature (°C) and Other Remarks: 5-1/51</p>					

