



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 1/24/2023 12:51:07 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-122104-1

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
Tracy Dutton, Client Relations Manager
Tracy.Dutton@et.eurofinsus.com
Designee for
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: 580-122104-1

Job ID: 580-122104-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-122104-1

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.

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

The samples were received on 01/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 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-RHMW03-WGN01LF-2301W1 (580-122104-1), AF-RHMW02-WGN01LF-2301W1 (580-122104-2), AF-RHMW225401-WGN01B-2301W1 (580-122104-3), AF-RHMW17-WGN01LF-2301W1 (580-122104-4), AF-RHMW17-WQFB01-2301W1 (580-122104-5), AF-RHMW17D-WGN01LF-2301W1 (580-122104-6), AF-RHMW17D-WQEB01-2301W1 (580-122104-7), AF-RHMW03-WGN01LF-2301W2 (580-122104-8) and AF-RHMW02-WGN01LF-2301W2 (580-122104-9) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 01/16/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-122104-1

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

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: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Lab Sample ID: 580-122104-1

Date Collected: 01/05/23 13:55

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 15:29	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW02-WGN01LF-2301W1

Lab Sample ID: 580-122104-2

Date Collected: 01/05/23 12:25

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 15:52	1

- 1
- 2
- 3
- 4
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- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW225401-WGN01B-2301W1

Lab Sample ID: 580-122104-3

Date Collected: 01/05/23 08:55

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 16:16	1

- 1
- 2
- 3
- 4
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- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW17-WGN01LF-2301W1

Lab Sample ID: 580-122104-4

Date Collected: 01/06/23 13:20

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 16:39	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: AECOM

Job ID: 580-122104-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WQFB01-2301W1

Lab Sample ID: 580-122104-5

Date Collected: 01/06/23 15:30

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 17:02	1

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1

Lab Sample ID: 580-122104-6

Date Collected: 01/06/23 12:05

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 17:26	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW17D-WQEB01-2301W1

Lab Sample ID: 580-122104-7

Date Collected: 01/06/23 15:25

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 17:49	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: AECOM

Job ID: 580-122104-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

Date Collected: 01/09/23 14:10

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 18:12	1

Client Sample Results

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW02-WGN01LF-2301W2

Lab Sample ID: 580-122104-9

Date Collected: 01/09/23 12:40

Matrix: Water

Date Received: 01/11/23 15:00

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			01/16/23 18:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

QC Sample Results

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

Job ID: 580-122104-1

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

Lab Sample ID: MB 680-759183/10
Matrix: Water
Analysis Batch: 759183

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			01/16/23 15:06	1

Lab Sample ID: LCS 680-759183/6
Matrix: Water
Analysis Batch: 759183

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	19.0		mg/L		95	50 - 150

Lab Sample ID: LCSD 680-759183/7
Matrix: Water
Analysis Batch: 759183

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	18.8		mg/L		94	50 - 150	1	50

Lab Sample ID: 580-122104-1 MS
Matrix: Water
Analysis Batch: 759183

Client Sample ID: AF-RHMW03-WGN01LF-2301W1
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	20.0	20.0		mg/L		100	50 - 150

Lab Sample ID: 580-122104-1 MSD
Matrix: Water
Analysis Batch: 759183

Client Sample ID: AF-RHMW03-WGN01LF-2301W1
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	20.0	19.1		mg/L		96	50 - 150	4	50

Lab Chronicle

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W1

Lab Sample ID: 580-122104-1

Date Collected: 01/05/23 13:55

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 15:29

Client Sample ID: AF-RHMW02-WGN01LF-2301W1

Lab Sample ID: 580-122104-2

Date Collected: 01/05/23 12:25

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 15:52

Client Sample ID: AF-RHMW225401-WGN01B-2301W1

Lab Sample ID: 580-122104-3

Date Collected: 01/05/23 08:55

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 16:16

Client Sample ID: AF-RHMW17-WGN01LF-2301W1

Lab Sample ID: 580-122104-4

Date Collected: 01/06/23 13:20

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 16:39

Client Sample ID: AF-RHMW17-WQFB01-2301W1

Lab Sample ID: 580-122104-5

Date Collected: 01/06/23 15:30

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:02

Client Sample ID: AF-RHMW17D-WGN01LF-2301W1

Lab Sample ID: 580-122104-6

Date Collected: 01/06/23 12:05

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:26

Client Sample ID: AF-RHMW17D-WQEB01-2301W1

Lab Sample ID: 580-122104-7

Date Collected: 01/06/23 15:25

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 17:49

Lab Chronicle

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

Job ID: 580-122104-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W2

Lab Sample ID: 580-122104-8

Date Collected: 01/09/23 14:10

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 18:12

Client Sample ID: AF-RHMW02-WGN01LF-2301W2

Lab Sample ID: 580-122104-9

Date Collected: 01/09/23 12:40

Matrix: Water

Date Received: 01/11/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	759183	JCK	EET SAV	01/16/23 18:36

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: 580-122104-1

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: 580-122104-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-122104-1	AF-RHMW03-WGN01LF-2301W1	Water	01/05/23 13:55	01/11/23 15:00
580-122104-2	AF-RHMW02-WGN01LF-2301W1	Water	01/05/23 12:25	01/11/23 15:00
580-122104-3	AF-RHMW225401-WGN01B-2301W1	Water	01/05/23 08:55	01/11/23 15:00
580-122104-4	AF-RHMW17-WGN01LF-2301W1	Water	01/06/23 13:20	01/11/23 15:00
580-122104-5	AF-RHMW17-WQFB01-2301W1	Water	01/06/23 15:30	01/11/23 15:00
580-122104-6	AF-RHMW17D-WGN01LF-2301W1	Water	01/06/23 12:05	01/11/23 15:00
580-122104-7	AF-RHMW17D-WQEB01-2301W1	Water	01/06/23 15:25	01/11/23 15:00
580-122104-8	AF-RHMW03-WGN01LF-2301W2	Water	01/09/23 14:10	01/11/23 15:00
580-122104-9	AF-RHMW02-WGN01LF-2301W2	Water	01/09/23 12:40	01/11/23 15:00

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Chain of Custody Record

Client Information		Sampler: <i>Tianzhen Mo</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): <i>UNITED FedEx AWB 85639945</i>		COC No: 2301W1EUSav-02																																															
Client Contact:		Phone: <i>805-382-8657</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																																															
Company: AECOM		PWSID:		Analysis Requested						Job #:																																													
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<table border="1"> <tr> <td colspan="6">TAT Requested (days): Rush - ASAP</td> <td colspan="6" rowspan="5"> <i>MSD call 6/5/23</i> </td> <td colspan="6" rowspan="5"> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other: </td> </tr> <tr> <td colspan="6">Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="6">PO #:</td> </tr> <tr> <td colspan="6">WO #:</td> </tr> <tr> <td colspan="6">Project #:</td> </tr> </table>						TAT Requested (days): Rush - ASAP						<i>MSD call 6/5/23</i>						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:						Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						PO #:						WO #:						Project #:						Project Name: CTO N6274223F0104		Project #: 60697810	
TAT Requested (days): Rush - ASAP										<i>MSD call 6/5/23</i>																		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																											
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																							
PO #:																																																							
WO #:																																																							
Project #:																																																							
Site: RHSF		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015C_DAL_GL_D5/ 2-(2-butoxyethoxy)-ethanol																																															
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015C_DAL_GL_D5/ 2-(2-butoxyethoxy)-ethanol		Total Number of containers		Special Instructions/Note:																																					
AF-RHMW03-WGN01LF-2301W1		<i>1/5/23</i>		<i>1355</i>		G		W		N		N		X		3		<i>United</i> <i>AWB 85639945</i> 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		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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 EQUS EDD.		Special Instructions/QC Requirements: DOD QSM project.																																													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																	
Relinquished by: <i>Tianzhen Mo</i>		Date/Time: <i>1/5/23 1530</i>		Company: AECOM		Received by: <i>Miranda DeCarro</i>		Date/Time: <i>1/5/23 1530</i>		Company: AECOM																																													
Relinquished by: <i>Miranda DeCarro</i>		Date/Time: <i>1/18/23 1245</i>		Company:		Received by: <i>[Signature]</i>		Date/Time: <i>1/11/23 1500</i>		Company:																																													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2.4/2.4</i>																																																			

Chain of Custody Record

Client Information		Sampler: <i>Tianzhen Nie</i>		Lab PIA: Elaine Walker		Carrier Tracking No(s): <i>UNITED</i> <i>FedEx AWB 85639945</i>		COC No: 2301W1EUSav-11			
Client Contact:		Phone: <i>808-382-8654</i>		E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>		State of Origin: Hawaii		Page: Page 1 of 1			
Company: AECOM		PWSID:		Analysis Requested						Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<div style="position: relative; height: 100px;"> 01/16/23 </div>						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Z - other (specify)	
City: Honolulu		TAT Requested (days): Rush - ASAP									
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 808-954-4512 / 770-331-0794		PO #:									
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:									
Project Name: CTO N6274223F0104		Project #: 60697810		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Site: RHSF		SSOW#:		8015C_DAL_GL_D5/ 2-12-butoxyethoxy/ethanol							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_D5/ 2-12-butoxyethoxy/ethanol	Total Number of Containers	Special Instructions/Note:	
				Preservation Code:		X	X	A	X		
AF-RHMW17D-WGN01LF-2301W1		1/6/23	1205	G	W	N	N	X	3		
AF-RHMW17D-WQEB01-2301W1		1/6/23	1525	G	W	N	N	X	3		
<i>for 1/6/23</i>											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<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						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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 EQULS EDD.			Special Instructions/QC Requirements: DOD QSM project.						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>Tianzhen Nie</i>		Date/Time: <i>1/6/23 1540</i>		Company: AECOM		Received by: <i>Miranda DeGarrino</i>		Date/Time: <i>1/6/23 1540</i>		Company: AECOM	
Relinquished by: <i>Miranda DeGarrino</i>		Date/Time: <i>1/10/23 1245</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>1/10/23 1500</i>		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>2.4/2.4</i>							

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-122104-1

Login Number: 122104

List Number: 2

Creator: Meincke, Griffin E

List Source: Eurofins Savannah

List Creation: 01/16/23 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		