



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

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JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-121801-1

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: 580-121801-1

Job ID: 580-121801-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling

Report Number: 580-121801-1

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

Thirteen samples were received on 1/3/2023 11:30 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 6.5° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW225401-WGN01B-2212W4 (580-121801-1), AF-RHMW06-WGN01LF-2212W4 (580-121801-2), AF-RHMW02-WGN01LF-2212W4 (580-121801-3), AF-RHMW10-WGN01LF-2212W4 (580-121801-4), AF-RHMW10-WGFD01LF-2212W4 (580-121801-5), AF-RHMW04-WGN01LF-2212W4 (580-121801-6), AF-RHMW17D-WGN01LF-2212W4 (580-121801-7), AF-RHMW17D-WQEB01-2212W4 (580-121801-8), AF-HDMW225303-WGN01LF-2212W4 (580-121801-9), AF-RHMW17-WGN01LF-2212W4 (580-121801-10), AF-RHMW12A-WGN01LF-2212W4 (580-121801-11), AF-RHMW16-WGN01LF-2212W4 (580-121801-12) and AF-RHMW03-WGN01LF-2212W4 (580-121801-13) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 01/12/2023.

The following sample was received by the analytical department with less than 2 days remaining on the holding time remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: AF-RHMW02-WGN01LF-2212W4 (580-121801-3), AF-RHMW10-WGN01LF-2212W4 (580-121801-4), AF-RHMW10-WGFD01LF-2212W4 (580-121801-5), AF-RHMW17D-WGN01LF-2212W4 (580-121801-7), AF-RHMW17D-WQEB01-2212W4 (580-121801-8), AF-HDMW225303-WGN01LF-2212W4 (580-121801-9), AF-RHMW17-WGN01LF-2212W4 (580-121801-10), AF-RHMW12A-WGN01LF-2212W4 (580-121801-11), AF-RHMW16-WGN01LF-2212W4 (580-121801-12), and AF-RHMW03-WGN01LF-2212W4 (580-121801-13).

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

Definitions/Glossary

Client: AECOM

Job ID: 580-121801-1

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

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2212W4

Lab Sample ID: 580-121801-1

Date Collected: 12/29/22 11:25

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 03:38	1

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

Client Sample Results

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2212W4

Lab Sample ID: 580-121801-2

Date Collected: 12/29/22 11:40

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 02:05	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: 580-121801-1

Client Sample ID: AF-RHMW02-WGN01LF-2212W4

Lab Sample ID: 580-121801-3

Date Collected: 12/27/22 11:45

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 02:51	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: 580-121801-1

Client Sample ID: AF-RHMW10-WGN01LF-2212W4

Lab Sample ID: 580-121801-4

Date Collected: 12/27/22 14:50

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 03:15	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: 580-121801-1

Client Sample ID: AF-RHMW10-WGFD01LF-2212W4

Lab Sample ID: 580-121801-5

Date Collected: 12/27/22 14:50

Matrix: Water

Date Received: 01/04/23 11:42

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	5.0	1.1	mg/L			01/12/23 06:20	1

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

Client Sample Results

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2212W4

Lab Sample ID: 580-121801-6

Date Collected: 12/29/22 10:40

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 02:28	1

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

Client Sample Results

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2212W4

Lab Sample ID: 580-121801-7

Date Collected: 12/28/22 16:10

Matrix: Water

Date Received: 01/04/23 11:42

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	5.0	1.1	mg/L			01/12/23 00:09	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: 580-121801-1

Client Sample ID: AF-RHMW17D-WQEB01-2212W4

Lab Sample ID: 580-121801-8

Date Collected: 12/28/22 17:15

Matrix: Water

Date Received: 01/04/23 11:42

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	5.0	1.1	mg/L			01/12/23 00:32	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: 580-121801-1

Client Sample ID: AF-HDMW225303-WGN01LF-2212W4

Lab Sample ID: 580-121801-9

Date Collected: 12/27/22 11:10

Matrix: Water

Date Received: 01/04/23 11:42

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 H	5.0	1.1	mg/L			01/12/23 06:43	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: 580-121801-1

Client Sample ID: AF-RHMW17-WGN01LF-2212W4

Lab Sample ID: 580-121801-10

Date Collected: 12/28/22 15:10

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 00:55	1

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

Client Sample Results

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2212W4

Lab Sample ID: 580-121801-11

Date Collected: 12/28/22 10:35

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 01:18	1

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

Client Sample Results

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2212W4

Lab Sample ID: 580-121801-12

Date Collected: 12/28/22 13:05

Matrix: Water

Date Received: 01/04/23 11:42

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			01/12/23 01:42	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: 580-121801-1

Client Sample ID: AF-RHMW03-WGN01LF-2212W4

Lab Sample ID: 580-121801-13

Date Collected: 12/27/22 13:15

Matrix: Water

Date Received: 01/04/23 11:42

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 H	5.0	1.1	mg/L			01/12/23 07:07	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: 580-121801-1

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

Lab Sample ID: MB 680-758737/23
Matrix: Water
Analysis Batch: 758737

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			01/11/23 23:45	1

Lab Sample ID: LCS 680-758737/19
Matrix: Water
Analysis Batch: 758737

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	21.1		mg/L		105	50 - 150

Lab Sample ID: LCSD 680-758737/20
Matrix: Water
Analysis Batch: 758737

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	18.6		mg/L		93	50 - 150	13	50

Lab Sample ID: 580-121801-1 MS
Matrix: Water
Analysis Batch: 758737

Client Sample ID: AF-RHMW225401-WGN01B-2212W4
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	40.0	35.5		mg/L		89	50 - 150

Lab Sample ID: 580-121801-1 MSD
Matrix: Water
Analysis Batch: 758737

Client Sample ID: AF-RHMW225401-WGN01B-2212W4
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	40.0	31.5		mg/L		79	50 - 150	12	50

Lab Sample ID: MB 680-758764/23
Matrix: Water
Analysis Batch: 758764

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			01/11/23 23:45	1

Lab Sample ID: LCS 680-758764/19
Matrix: Water
Analysis Batch: 758764

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	21.1		mg/L		105	50 - 150

Lab Sample ID: LCSD 680-758764/20
Matrix: Water
Analysis Batch: 758764

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	18.6		mg/L		93	50 - 150	13	50

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Lab Chronicle

Client: AECOM

Job ID: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2212W4

Lab Sample ID: 580-121801-1

Date Collected: 12/29/22 11:25

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 03:38

Client Sample ID: AF-RHMW06-WGN01LF-2212W4

Lab Sample ID: 580-121801-2

Date Collected: 12/29/22 11:40

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 02:05

Client Sample ID: AF-RHMW02-WGN01LF-2212W4

Lab Sample ID: 580-121801-3

Date Collected: 12/27/22 11:45

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 02:51

Client Sample ID: AF-RHMW10-WGN01LF-2212W4

Lab Sample ID: 580-121801-4

Date Collected: 12/27/22 14:50

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 03:15

Client Sample ID: AF-RHMW10-WGFD01LF-2212W4

Lab Sample ID: 580-121801-5

Date Collected: 12/27/22 14:50

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758764	JCK	EET SAV	01/12/23 06:20

Client Sample ID: AF-RHMW04-WGN01LF-2212W4

Lab Sample ID: 580-121801-6

Date Collected: 12/29/22 10:40

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 02:28

Client Sample ID: AF-RHMW17D-WGN01LF-2212W4

Lab Sample ID: 580-121801-7

Date Collected: 12/28/22 16:10

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 00:09

Eurofins Seattle

Lab Chronicle

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

Job ID: 580-121801-1

Client Sample ID: AF-RHMW17D-WQEB01-2212W4

Lab Sample ID: 580-121801-8

Date Collected: 12/28/22 17:15

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 00:32

Client Sample ID: AF-HDMW225303-WGN01LF-2212W4

Lab Sample ID: 580-121801-9

Date Collected: 12/27/22 11:10

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758764	JCK	EET SAV	01/12/23 06:43

Client Sample ID: AF-RHMW17-WGN01LF-2212W4

Lab Sample ID: 580-121801-10

Date Collected: 12/28/22 15:10

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 00:55

Client Sample ID: AF-RHMW12A-WGN01LF-2212W4

Lab Sample ID: 580-121801-11

Date Collected: 12/28/22 10:35

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 01:18

Client Sample ID: AF-RHMW16-WGN01LF-2212W4

Lab Sample ID: 580-121801-12

Date Collected: 12/28/22 13:05

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758737	JCK	EET SAV	01/12/23 01:42

Client Sample ID: AF-RHMW03-WGN01LF-2212W4

Lab Sample ID: 580-121801-13

Date Collected: 12/27/22 13:15

Matrix: Water

Date Received: 01/04/23 11:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	758764	JCK	EET SAV	01/12/23 07:07

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: 580-121801-1

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: 580-121801-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-121801-1	AF-RHMW225401-WGN01B-2212W4	Water	12/29/22 11:25	01/04/23 11:42
580-121801-2	AF-RHMW06-WGN01LF-2212W4	Water	12/29/22 11:40	01/04/23 11:42
580-121801-3	AF-RHMW02-WGN01LF-2212W4	Water	12/27/22 11:45	01/04/23 11:42
580-121801-4	AF-RHMW10-WGN01LF-2212W4	Water	12/27/22 14:50	01/04/23 11:42
580-121801-5	AF-RHMW10-WGFD01LF-2212W4	Water	12/27/22 14:50	01/04/23 11:42
580-121801-6	AF-RHMW04-WGN01LF-2212W4	Water	12/29/22 10:40	01/04/23 11:42
580-121801-7	AF-RHMW17D-WGN01LF-2212W4	Water	12/28/22 16:10	01/04/23 11:42
580-121801-8	AF-RHMW17D-WQEB01-2212W4	Water	12/28/22 17:15	01/04/23 11:42
580-121801-9	AF-HDMW225303-WGN01LF-2212W4	Water	12/27/22 11:10	01/04/23 11:42
580-121801-10	AF-RHMW17-WGN01LF-2212W4	Water	12/28/22 15:10	01/04/23 11:42
580-121801-11	AF-RHMW12A-WGN01LF-2212W4	Water	12/28/22 10:35	01/04/23 11:42
580-121801-12	AF-RHMW16-WGN01LF-2212W4	Water	12/28/22 13:05	01/04/23 11:42
580-121801-13	AF-RHMW03-WGN01LF-2212W4	Water	12/27/22 13:15	01/04/23 11:42



Chain of Custody Record

016-31339313

Client Information		Sampler: <i>Andy Young</i>		Lab P#: Elaine Walker	COC No: 2212W4EUSav-03						
Client Contact:		Phone: 402-871-5712	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1						
Company: AECOM		PWSID:		Job #:							
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Preservation Codes:							
City: Honolulu		TAT Requested (days): Rush - ASAP		A - HCL M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)							
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other:							
Phone: 808-954-4512 / 770-331-0794		PO #:									
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WC #:									
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)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_D5f/2-(2-butoxyethoxy)-ethanol	Total Number of Containers	Special Instructions/Note:
AF-RHIMV225401-WGND1B-2212W4		12/29/22	1125	G		W	N	N		3	
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)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard IAT_AECOM EQULS EDD.									
Empty Kit Relinquished by:		Date:									
Relinquished by: <i>Andy Young</i>		Date/Time: 12/29/22 / 1400	Company: AECOM								
Relinquished by: <i>Ken Sun</i>		Date/Time: 12/30/22 / 1300	Company: AECOM								
Relinquished by:		Date/Time:	Company:								
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		6-5/6.5							
				Cooler Temperature: $^{\circ}$ C and Other Remarks:							

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: DOD QSM project

Method of Shipment:

Received by: *Ken Sun*
 Date/Time: 12/29/22 / 1400
 Company: AECOM

Received by: *Ken Sun*
 Date/Time: 12/30/22 / 1300
 Company: AECOM

Received by:

Received by:

Received by:

Received by:



Chain of Custody Record

016-31339313

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		Sampler: Aaron Owe Lab Piv: Elaine Walker Phone: 314-595-7610 E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): 2212W4EU Sav-09 State of Origin: Hawaii Page: 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSON#:		Analysis Requested 8015C, DA1, GL, DS/2-(2-butylethoxy)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Total Number of Containers <input checked="" type="checkbox"/> 3			
Sample Identification AF-RHMM06-WGN01LF-2212W4 Sample Date: 12/29/22 Sample Time: 1140 Sample Type (C=Comp, G=grab): G Matrix (W=Water, S=Solid, O=Water/Oil, BT=Tissue, A=Air): W		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:			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B Deliverable Requested: I, II, III, IV, 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by: Aaron Owe Date: 12/29/22 1330 Company: AECOM		Relinquished by: [Signature] Date: 12/29/22 1330 Company: AECOM			
Relinquished by: [Signature] Date: 12/30/22 1300 Company: AECOM		Relinquished by: [Signature] Date: 11/3/22 1130 Company:			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 6.5/6.5		Cooler Temperature(s) and Other Remarks:			



Chain of Custody Record

016-31339313

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: RHSE		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com FWSID:		Carrier Tracking No(s): 2212W4EUSav-01 Page: Page 1 of 1 State of Origin: Hawaii Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #:		Analysis Requested 8015C_PAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N Total Number of Containers <input checked="" type="checkbox"/> 3			
Sample Information Sample Date: 12-27-22 Sample Time: 1145 Sample Type: G Matrix: W=water, S=solid, O=soil, B=biological Preservation Code: W		Special Instructions/Note: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:			
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 type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by:		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT - AECOM EQUIS EDD. Date: 12-27-22 1145 Date/Time: 12/27/22 1145 Date/Time: 12/30/22 1300 Date/Time:			
Relinquished by: <i>Christina Heifhe</i> Relinquished by: <i>Christina Heifhe</i> Relinquished by:		Received by: <i>Christina Heifhe</i> Received by: <i>Christina Heifhe</i> Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 6.5/6.5 Ver: 01/16/2019			



016-31339373

Client Information		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx United		COC No: 2212W4EUSav-05	
Client Contact:		Phone: Aaron Oliver 314-585-7610		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		TAT Requested (days): Rush - ASAP		Preservation Codes:	
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		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:	
Phone: 808-954-4512 / 770-331-0794		WO #:		Project #:		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 Z - other (specify)	
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #:		SSOW#:		Total Number of Containers	
CTO N627423F0104		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site: RH5F		Sample Date		Sample Time		Matrix (W=water, S=solid, O=waste/oil, B=biota, A=air)	
Sample Identification		Sample Date		Sample Time		Preservation Code:	
AF-RHMW10-WGND01LF-2212W4		12/27/22		1450		G W	
AF-RHMW10-WGFD01LF-2212W4		12/27/22		1450		G W	
IMD 12/27/22							
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)		Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4 report standard IAT. AECOM EQUIS FDD		Date:		Time:	
Empty Kit Relinquished by:		Date/Time: 12/27/22 1030		Company: AECOM		Received by: Miranda Delgarno	
Relinquished by: Aaron Oliver		Date/Time: 12/30/22 1300		Company: AECOM		Received by: Guy	
Relinquished by: Miranda Delgarno		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		6.5/6.5	



016-313393B

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		Sampler: CHRIS WOWNACK Phone: (916) 769-9323 PWSID:		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): 2212W4EU Sav-08 Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #:		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (Specify) Other:		Total Number of Containers: 3	
Sample Identification AF-RHMW04-WGN01LF-2212W4		Sample Date: 12/29/22 Sample Time: 1040 Sample Type: G Matrix: W		Field Filtered Sample (Yes or No): N Perform MS/MSD (Yes or No): N 805C DAL GL D5/ 2-(2-butoxyethoxy)-ethanol		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		Deliverable Requested: I, II, III, IV, Other (specify)		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		Method of Shipment:	
Empty Kit Relinquished by:		Date/Time: 12/29/22 1330 Company: AECOM		Date/Time: 12/29/22 1330 Company: AECOM		Date/Time: 1/3/22 1130 Company:	
Relinquished by: CHRIS WOWNACK		Date/Time: 12/29/22 1330 Company: AECOM		Date/Time: 1/3/22 1130 Company:		Date/Time: 6.5/6.5 Cooler Temperature(s) °C and Other Remarks:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Ver: 01/16/2019		Ver: 01/16/2019	



Chain of Custody Record

016-3133933

Company: AECOM Address: 1001 Bishop St. Suite 1600 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: RHSF		Lab POC: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): FedEx 1111111111 State of Origin: Hawaii Job #:		COC No: 2212W4EUSav-11 Page: Page 1 of 1	
Sampler: Mitch Biber Phone: 509-554-0879 PWSID:		Analysis Requested			
Due Date Requested: See subcontract TAT Requested (days): Rush - ASAP		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 Z - other (specify)			
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Special Instructions/Note:			
Sample Identification		8015 DAL GL DS/2-(2-butoxyethoxy)-ethanol			
Sample Date: 12/28/22 Sample Time: 1600 Sample Type (C=Comp, G=grab): G Preservation Code: A		Field Filled Sample (Yes or No): N Perform MS/MSD (Yes or No): N		Total Number of Containers: 3	
AF-RHMW17D-WGN01LF-2212W4 AF-RHMW17D-WQEB01-2212W4		Matrix (W=water, O=organic, B=oil, BTL=Beutels, A=air): W		Special Instructions/Note:	
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"/> Acetological		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			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: DOD QSM project.			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: Mitch Biber Date/Time: 12/28/22 1725 Company: AECOM		Received by: [Signature] Date/Time: 12/28/22 1725 Company: AECOM			
Relinquished by: [Signature] Date/Time: 12/30/22 1500 Company: AECOM		Received by: [Signature] Date/Time: 12/22 1130 Company: AECOM			
Relinquished by:		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 6-5/6-5		Cooler Temperature(s) and Other Remarks:			



Chain of Custody Record

016-31339213

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 (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com) Project Name: CTO 16274223F0104 Site: RHSF		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com PWSID:		Sampler: Aaron Oliver Phone: 314-585-7610		Carier Tracking No(s): PERC WHITED State of Origin: Hawaii Page: Page 1 of 1 Job #:		COC No: 2212W4EUSav-04	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #:		Analysis Requested		Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2CO3 Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - NCA4 W - pH 4-5 X - EDTA Y - EDA Z - other (Specify)		Total Number of containers: 3		Special Instructions/Note:	
Sample Identification AF-HDMW225303-WGN01F-2212W4		Sample Date: 12/27/22 Sample Time: 1110 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=In tissue, A=air)		Field Filled Sample (Yes or No): N Perform MS/MSD (Yes or No): N 8015C_DAL_GL_DS (-2-butylethoxy) ethanol: A		Total Number of containers: 3		Special Instructions/Note:	
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)		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.		Total Number of containers: 3		Special Instructions/Note:	
Empty Kit Relinquished by:		Date: 12/27/22 1630 Company: AECOM		Received by: <i>Miranda DeBarni</i> Date/Time: 12/27/22 1630 Company: AECOM		Total Number of containers: 3		Special Instructions/Note:	
Relinquished by: <i>Aaron Oliver</i> Date/Time: 12/30/22 1300 Company: AECOM		Date: 12/30/22 1300 Company: AECOM		Received by: <i>Aaron Oliver</i> Date/Time: 12/30/22 1300 Company: AECOM		Total Number of containers: 3		Special Instructions/Note:	
Relinquished by: <i>Miranda DeBarni</i> Date/Time:		Date:		Received by:		Total Number of containers: 3		Special Instructions/Note:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Total Number of containers: 3		Special Instructions/Note:	
Ver: 01/16/2019		Ver: 01/16/2019		Ver: 01/16/2019		Total Number of containers: 3		Special Instructions/Note:	



Chain of Custody Record

016-3133923

Client Information Client Contact: <u>Mark Baker</u> Phone: <u>509 554 0879</u> FMSID:		Lab PM: <u>Elaime Walker</u> E-Mail: <u>M.Elaime.Walker@EurofinsET.com</u>		Carmer Tracking No(s): <u>2212W4EUSav-10</u> Page: <u>1 of 1</u> State of Origin: <u>Hawaii</u> Job #:	
Due Date Requested: see subcontract TAT Requested (days): <u>Rush - ASAP</u>		Analysis Requested			
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #:		Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Project #: <u>60697810</u> SOW#:		Total Number of Containers: <u>2</u>			
Site: <u>RHSF</u>		Special Instructions/Note:			
Sample Identification AF-RHMW17-WGN01LF-2212W4		Sample Date: <u>12/28/22</u>	Sample Time: <u>1510</u>	Sample Type (C=Comp, G=grab): <u>G</u>	Matrix (W=water, S=solid, O=water/oil, B=Butter, A=Air)
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 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 L1AT-AECOM-EQUIS-EDD			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: <u>Mark Baker</u>		Date/Time: <u>12/28/22 1700</u>			
Relinquished by: <u>Kenji</u>		Date/Time: <u>12/30/22 1300</u>			
Relinquished by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <u>6.5/6.5</u>			



016-31339313

Client Information		Company: AECOM		Lab PM: Elaine Walker		COC No: 2212W4EUSav-07	
Address: 1001 Bishop St. Suite 1600		Phone: 314-585-7610		E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): FedEx White	
City: Honolulu		State: HI		State of Origin: Hawaii		Page: 1 of 1	
State: HI		Zip: 96813		PWSID:		Job #:	
Phone: 808-954-4512 / 770-331-0794		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Due Date Requested: see subcontract		Analysis Requested	
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com))		Project #: 60697810		TAT Requested (days): Rush - ASAP		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: CTO N6274223F0104		Site: RH5F		Matrix (Water, Solid, Swab, etc.)		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
AF-RHMW16-WGND1LF-2212W4		12/28/22		1305		G	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015C, DAL, GL, DS/2-(2-butoxyethoxy)-ethanol		Total Number of Containers	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		3	
Possible Hazard Identification		Poison B		Flammable		Skin Irritant	
<input type="checkbox"/> Non-Hazard		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Deliverable Requested: I, II, III, IV, Other (specify)		4 report standard TAT, AECOM EQUIS EDD		Prelim data (Level 1 or 2) - see TAT above, DoD Stage		Special Instructions/QC Requirements: DOD QSM project.	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Elaine Walker</i>		Date: 12/28/22		Time: 1700		Company: AECOM	
Relinquished by: <i>160</i>		Date: 12/28/22		Time: 1730 MD		Company: AECOM	
Relinquished by: <i>160</i>		Date: 1/4/23		Time: 1500		Company: AECOM	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		6.5 / 6.5	



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Chain of Custody Record

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016-31339813

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 PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Phone: 508-597-5993 PWSID:		Carrier Tracking No(s): 2212W4EUSav-02 State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Analysis Requested 8016c_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Total Number of Containers <input checked="" type="checkbox"/> 3			
Sample Identification AF-RHMW03-WGN01LF-2212W4		Sample Date: 12-27-22 Sample Time: 1315 Sample Type (C=Comp, G=grab): G Preservation Code: W	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:		
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		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			
Deliverable Requested: I, II, III, IV, Other (specify) 4 report standard TAT - AECOM EQUUS EDD		Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: Relinquished by: [Signature] Date/Time: 12/27/22 1440 Company: AECOM		Method of Shipment: Date/Time: 12/27/22 1446 Company: AECOM			
Relinquished by: Relinquished by: [Signature] Date/Time: 12/30/22 1300 Company: AECOM		Date/Time: 1/3/22 0130 Company:			
Relinquished by: Relinquished by: [Signature] Date/Time:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 6.5/16.5			



Chain of Custody Record

016-3123913

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@aeacom.com / Mark.Kromis@aeacom.com Project Name: CTO N6274223F0104 Site: RHSF		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com PWSID:	
Sampler: <i>Andy Long</i> Phone: 402-871-5712		Carrier Tracking No(s): 2212WAEUSav-03 State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Analysis Requested 8015C, PAI, CL, DSI, Z-(2-butylethoxy)-ethanol Form MS/MSD (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/>	
Sample Identification AF-RHMW225401-WGN01B-2212W4		Matrix: <input type="checkbox"/> Water <input type="checkbox"/> Sediment <input type="checkbox"/> Other (specify) Sample Type (C=comp, G=grab): Sample Time: <i>11:25</i> Sample Date: <i>12/29/22</i> Preservation Code: <input type="checkbox"/> G <input type="checkbox"/> W	
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)		Special Instructions/Note: 580-121801 Chain of Custody 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 <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: DOD QSM project	
Empty Kit Relinquished by: <i>Andy Long</i> Date/Time: <i>12/29/22 1400</i> Relinquished by: <i>Ken Sun</i> Date/Time: <i>12/30/22 1300</i> Relinquished by:		Method of Shipment: Date/Time: <i>12/29/22 1400</i> Date/Time: <i>1/3/23 1130</i> Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.		Cooler Temperature: <i>6.5/6.5</i> °C and Other Remarks:	



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Chain of Custody Record

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016-3133933

Client Information Client Contact: Christina Kelle Phone: 252-259-5793 Company: AECOM		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		COC No: 2212W4EUSav-01 Carrier Tracking No(s): 016-3133933 State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Total Number of Containers: 3		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-5 Z other (specify)	
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #:		Matrix (W=water, S=solid, O=volatile, G=grab) Preservation Code:		Special Instructions/Note:	
Project #: 60697810 SSO#: RHSF		Sample Date: 12-27-22 Sample Time: 1145 Sample Type: G Preservation Code: W		Special Instructions/Note: 3	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State: HI Zip: 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aeecom.com / Mark.Kromis@aeecom.com Project Name: CTO N6274223F0104 Site: RHSF		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 type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I II III IV Other (specify)		Prelim data (Level 1 or 2) = see TAT above DoD Stage: 4 report standard TAT - AECOM EQMIS EDD		Special Instructions/QC Requirements: DOD QSM project	
Relinquished by: Christina Kelle Date/Time: 12-27-22 1440		Relinquished by: [Signature] Date/Time: 12-30-22 1300		Relinquished by: [Signature] Date/Time: 11/3/22 1130	
Relinquished by: [Signature] Date/Time:		Relinquished by: [Signature] Date/Time:		Relinquished by: [Signature] Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s): 6-5 / 6.5 Ver: 01/16/2019	



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Chain of Custody Record

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Carrier Tracking No(s):
016-31339313
FedEx United

Client Information Client Contact: Aaron Olive Phone: 314-885-7610 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 (mark.kromis@aecom.com) Project Name: CTO N6274223F0104 Site: RH5F		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii PWSID:		Lab No: 2212W4EUSav-05 Page: 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Analysis Requested Total Number of Containers: 3 8015C DAL GL DS/2-(2-butylethoxy)-ethanol Perform M/MSD (Yes or No): Field Filtered Sample (Yes or No): Matrix (Water, Sludge, Overstain, Oil, Int-Tissue, Ash) Sample Type (C=comp, G=grab) Preservation Code:			
Sample Identification AF-RHMM10-WGN01LF-2212W4 AF-RHMM10-WGFD01LF-2212W4 M/D 12/27/22		Sample Date: 12/27/22 Sample Time: 1450 12/27/22 1450		Preservation Codes: M Hexane N None O ASNG02 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) Other:	
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)		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 <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: DOD QSM project			
Empty Kit Relinquished by: Aaron Olive Relinquished by: Miranda Degarmo Relinquished by:		Date: 12/27/22 Date/Time: 1300 Date/Time: 1130		Method of Shipment: Received by: Miranda Degarmo Date/Time: 12/27/22 1630 Received by: [Signature] Date/Time: 11/3/22 1130 Received by: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 6.5/6.5			



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016-3133933

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		Sampler Name: CHRIS WOMACK Phone: (916) 769-9323 Email: Elaine.Walker@EurofinsET.com		Lab PM: Elaine Walker State of Origin: Hawaii		Carrier Tracking No: 2212W4EUSav-08 Page: 1 of 1 Job #:	
Due Date Requested: See subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SOW#:		Analysis Requested Total Number of Containers: 3		Preservation Codes: M Hexane N None O AshNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)		Special Instructions/Note:	
Sample Identification Sample ID: AF-RHMW04-WGN01LF-2212W4 Sample Date: 12/27/22 Sample Time: 1040 Sample Type: (C-Comp, G-grab) Matrix: (Water, Solid, Spill, Open-air, Air, Soil, Tissue, Ash)		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Code: G W 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	
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		Prelim data (Level 1 or 2) - see TAT above DoD Stage 4 report standard IAT_AECOM.EQUS.EDD		Method of Shipment:		Date/Time: 12/29/22 1330 Date/Time: 12/30/22 1300 Date/Time:	
Relinquished by: CHRIS WOMACK Relinquished by: <i>[Signature]</i> Relinquished by:		Date/Time: 12/29/22 1330 Date/Time: 12/30/22 1300 Date/Time:		Received by: <i>[Signature]</i> Received by: <i>[Signature]</i> Received by:		Company: AECOM Company: AECOM Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s): 6.5 / 6.5		Custody Seal No:		Ver: 01/16/2019	



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Chain of Custody Record

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016-31339313

Client Information Client Contact: Mark Biber Phone: 509-554-0879 Lab P/N: Elaine Walker State of Origin: Hawaii E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No: 2212W4EUSav-11 Page: 1 of 1 Job #:	
Company AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Wabson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Analysis Requested Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: PWSID WO #: 60697810 Project #: 60697810 SSO#:	
Sample Identification AF-RHMW17D-WGN01LF-2212W4 AF-RHMW17D-WQEB01-2212W4		Preservation Codes A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F NaOH G Amiclor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
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"/> Biological <input type="checkbox"/> Other (specify)		Special Instructions/Note: Total Number of Containers: 3 Total Number of Containers: 3 Special Instructions/Note:	
Deliverable Requested <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: DOD QSM project.	
Empty Kit Relinquished by Relinquished by: Mark Biber Date/Time: 12/28/22 17:25 Relinquished by: IC Date/Time: 12/30/22 12:00 Relinquished by:		Method of Shipment Received by: IC Date/Time: 12/28/22 17:25 Received by: IC Date/Time: 12/30/22 12:00 Received by:	
Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 6.5/6.5 Ver: 01/16/2019	



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Chain of Custody Record

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016-31339213

Client Information Client Contact: Aaron Oliver Phone: 314-585-7610 PWSID:		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii		COC No: 2212W4EUSav-04 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 (watson.tanji@aeecom.com) / Mark.Kromis (mark.kromis@aeecom.com) Project Name: CTO N627423F0104 Site: RHSF		Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOW#:		Camer Tracking (No/Yes): None/None 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:	
Sample Identification AF-HDMW225303-WGN01LF-2212W4		Matrix: Water Sample Type: (C=Comp, G=grab) Preservation Code: G		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Total Number of Containers: 3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B Deliverable Requested I II III IV Other (specify)		Sample Date: 12/27/12 Sample Time: 1110 Matrix: Water		Special Instructions/Note: NO 12/20/12 NO 12/20/12 NO 12/20/12	
Empty Kit Relinquished by: Aaron Oliver Date/Time: 12/27/12 1630		Relinquished by: Miriam DeGama Date/Time: 12/30/12 1300		Relinquished by: AECOM Date/Time: 11/3/12 1130	
Relinquished by: Aaron Oliver Date/Time: 12/27/12 1630		Relinquished by: Miriam DeGama Date/Time: 12/30/12 1300		Relinquished by: AECOM Date/Time: 11/3/12 1130	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 6-5/6-5	



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Chain of Custody Record

016-3133923

Client Information Client Contact: Mark Biber Phone: 509 554 0074 PWSID:		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		COC No: 2212W4EUSav-10 Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP		Analysis Requested		Preservation Codes: A HCL M Hexane B H2O N None C Zr/Aspartate O As/NO2 D Nitric Acid P Ni/As E MeOH Q Ni/CO3 F MeOH R Ni/CO3 G Ammonia S H2SO4 H Acetic Acid T TSP Dodecahydrate I DI Water U Acetone J DI Water V MCAA K EDTA W pH 4.5 L EDA X other (specify) Other	
Project #: 80697810 SSON#: RH5F		Sample Date: 12/28/22 Sample Time: 1510 Sample Type: G Matrix: G-Grab Preservation Code: W		Total Number of Containers: 3 Special Instructions/Note:	
Project Name: Watson Tani Watson, tani@aeom.com / Mark Kromis (mark.kromis@aeom.com) Site: CTO N6274223F0104		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> A Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> A		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	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Polson B		Date/Time: 12/28/22 1700 Date/Time: 12/30/22 1300 Date/Time:		Date/Time: 12/28/22 1700 Date/Time: 1/3/23 1130 Date/Time:	
Deliverable Requested I II III IV Other (specify)		Prelim data (Level 1a/2)=see TAT above DoD Stage 4 report standard TAT -AECOM/EOUS/FDD		Method of Shipment:	
Empty Kit Relinquished by:		Relinquished by: Mark Biber Relinquished by: Kevin Relinquished by:		Received by: Kevin Received by: Kevin Received by:	
Relinquished by:		Company: AECOM Company: AECOM Company:		Company: AECOM Company: AECOM Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 6-5/6.5	



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Chain of Custody Record

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0188-31339312

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.Tarji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Sampler: Mark Bieber Lab PM: Elaine Walker Phone: 509-554-0879 E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii		Carmer Tracking No(s): 2212W4EUSav-06 Page: Page 1 of 1 Job #:	
Due Date Requested see subcontract TAT Requested (days): Rush - ASAP Compliance Project: Δ Yes Δ No PO #: PWSID WO #:		Analysis Requested 8015C_DAL_GL_DS1 2-(2-butylethoxy)-ethanol Field Filtered Sample (Yes or No) [X] A [] N [] X Perform MS/MSD (Yes or No) [X] A [] N [] X Total Number of Containers [X] 3			
Sample Identification AF-RHMMW12A-WGND1LF-2212/W4 Sample Date: 12/28/22 Sample Time: 10:55 Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=soil, G=grab): Preservation Code: W		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AshNaO2 D Nitric Acid P - Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2SSO3 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 X other (specify) Other:			
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)		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			
Empty Kit Relinquished by: Mark Bieber Relinquished by: Mark Bieber Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Company: AECOM Company: AECOM Company: AECOM Company: AECOM		Received by: Mark Bieber Received by: Mark Bieber Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Date/Time: 12/28/22 17:00 Company: AECOM Company: AECOM Company: AECOM Company: AECOM			
Custody Seal Intact: <input type="checkbox"/> Custody Seal No.		Cooler Temperature(s) C and Other Remarks: 6-9/6-5 Ver: 01/16/2019			



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Chain of Custody Record

016-3133843
 3

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 PM Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): 2212W4EUSav-02 State of Origin: Hawaii Page: 1 of 1 Job #:	
Due Date Requested see subcontract TAT Requested (days): Rush - ASAP Compliance Project: Δ Yes Δ No PO #: WO #: Project #: 60697810 SSOW#:		Analysis Requested 8015C_DAL_GL_DS1/2-(2-butoxyethoxy)-ethanol Total Number of Containers: 3 Special Instructions/Note:			
Sample Identification AF-RHMW03-WGN01LF-2212W4		Sample Date 12-17-22	Sample Time 1315	Sample Type (C=comp, G=grab) G	Matrix (W=water, S=solid, O=soil, A=air, B=biological) W
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B Deliverable Requested I II III IV Other (specify)		Preservation Codes: M Hexane N None O AsNaO2 P Na2O4S Q Na2SO4 R NaHSO4 S H2SO4 T TSP Dodecahydrate U Acetone V NCA W pH 4-5 X EDTA Y other (specify) Z			
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		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			
Custody Seals Intact Δ Yes Δ No		Date/Time Date/Time: 12/27/22 1300 Date/Time: 12/27/22 1300 Date/Time:		Received by Received by: [Signature] Received by: [Signature] Received by: [Signature]	
Custody Seal No		Date/Time: 12/27/22 1300 Date/Time: 12/27/22 1300 Date/Time:		Date/Time: 12/27/22 1300 Date/Time: 12/27/22 1300 Date/Time:	
Cooler Temperature(s) °C and Other Remarks: 6.5 / 6.5		Method of Shipment:			

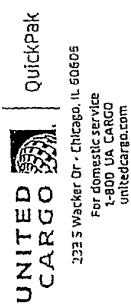


Carrier 016	Origin HONOLULU	Air waybill number 016-31339313	Date of departure 12/30/22	Final dest. SAV
ETD	1 st flight #/city 344	2 nd flight #/city 6049	ETA	First bag tag number Last bag tag number
SHIPPER'S NAME AECOM	SHIPPER'S REFERENCE # 60697810	3 rd flight #/city SAV	No. of pieces	Description
COMPANY NAME AECOM	Telephone (714) 801-2829		Weight/lbs. 1-25 70 26-50	Declared value
STREET ADDRESS 1001 Bishop St. Ste. 1600	STATE HI	ZIP 96813	51-75	
CITY Honolulu			76-100	
CONSIGNEE'S NAME Airspace AECOM	Telephone (714) 801-2829		Total	Handling information/LifeGuard
COMPANY NAME Eurofins			1	70
STREET ADDRESS 5102 La Roche Ave	STATE GA	ZIP 31404		
CITY Savannah				
Hold & not	Rate class (SCR)	Form of payment Type <input type="checkbox"/> Credit card <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Bill customer acct. no	Weight charge	Valuation charge
Third party	Account #	Expo. date	Fuel	Freight processing fee MC
It is agreed that the goods described herein are accepted in apparent good order and condition except as noted for damage. Both Shipper and Consignee agree that the shipper will be held liable for any loss or damage to the goods described herein and that the shipper will be held liable for any loss or damage to the goods described herein and made part of this contract. In addition, any Customer Contract applies.		7230075002	Taxes	Other
Signature of Shipper or Agent above and initial applicable box below <input checked="" type="checkbox"/> This shipment does not contain dangerous goods <input type="checkbox"/> This shipment does contain dangerous goods		Received in good order and condition	Total	
Signature _____ Date _____ Destination station code/location by UA agent (with name) _____ Time _____		Consignee's signature _____		
Origin station code/location by UA agent (with name) _____ Time _____				

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CCOACZZQP-NOJNUMBER (REV. 01/20)
 Part1. Shipper, Part2. Delivery, Part3. Consignee, Part4. Destination Airport, Part5. Carrier Part6. Airport of Origin
 016 31339313





Carrier 016	Origin HONOLULU	Air waybill number 016-31339313	Date of departure 12/30/22	Final dest SAN
ETD	1 st flight #/city 344	2 nd flight #/city 6049	ETA	First bag tag number Last bag tag number
SHIPPER'S NAME AECOM	SHIPPER'S REFERENCE # 60697810	3 rd flight #/city SAN	No. of pieces 1	Description water samples
COMPANY NAME AECOM	Telephone (714) 801-2829	Weight/lbs. 76-100	Declared value	
STREET ADDRESS 1001 Bishop St. Ste. 1600	CITY Honolulu	STATE HI	Handling information/LifeGuard	
CITY Savannah	STATE GA	ZIP 31404	Weight charge	
CONSIGNEE'S NAME Airspace AECOM	Telephone (714) 801-2829	Rate class (SCR)	Valuation charge	
COMPANY NAME Eurotins	STREET ADDRESS 5102 La Roche Ave	Form of payment Type: <input type="checkbox"/> Credit card <input type="checkbox"/> Comat <input checked="" type="checkbox"/> CBL <input type="checkbox"/> PHL <input type="checkbox"/> PHL	Fuel	
CITY Savannah	STATE GA	Exp. date	Freight processing fee MC	
STREET ADDRESS 5102 La Roche Ave	STATE GA	Bill customer acct. no. 72300750012	Taxes	
CITY Savannah	STATE GA	Received in good order and condition	Other	
STREET ADDRESS 5102 La Roche Ave	STATE GA	Consignee signature	Total	
CITY Savannah	STATE GA	Date	Total	
STREET ADDRESS 5102 La Roche Ave	STATE GA	Destination station code/location by UA agent (full name)	Total	
CITY Savannah	STATE GA	Date	Total	

Part 1 Shipper Part 2 Delivery Part 3 Consignee, Part 4 Destination Airport, Part 5 Carrier, Part 6 Airport of Origin 016 31339313



Carrier 016	Origin HONOLULU	Air waybill number 016-31339313	Date of departure 12/30/22	Final dest. SAV
ETD	1 st flight #/city 344	2 nd flight #/city 6049	ETA	First bag tag number Last bag tag number
SHIPPER'S NAME AECOM	SHIPPER'S REFERENCE # 60697810030.01	SHIPPER'S TELEPHONE (714) 801-2829	Weight/lbs. 1-25 70 26-50	Description water samples
COMPANY NAME AECOM	STREET ADDRESS 1001 Bishop St. Ste. 1600	CITY Honolulu HI	No. of pieces 1	
SHIPPER'S TELEPHONE (714) 801-2829	SHIPPER'S CITY Honolulu HI	SHIPPER'S STATE HI	Weight/lbs. 51-75	Declared value
SHIPPER'S ZIP 96813	SHIPPER'S STREET ADDRESS Airspace AECOM	SHIPPER'S CITY Honolulu HI	No. of pieces	
CONSIGNEE'S NAME Eurofins	CONSIGNEE'S TELEPHONE (714) 801-2829	CONSIGNEE'S CITY Savannah GA	Weight/lbs. 76-100	Handling information/LifeGuard
CONSIGNEE'S STREET ADDRESS 5102 La Roche Ave	CONSIGNEE'S CITY Savannah GA	CONSIGNEE'S STATE GA	No. of pieces 1	
CONSIGNEE'S ZIP 31404	CONSIGNEE'S STREET ADDRESS Savannah GA	CONSIGNEE'S CITY Savannah GA	Weight/lbs. Total	Form of payment Type Exo. date
CONSIGNEE'S ZIP 31404	CONSIGNEE'S CITY Savannah GA	CONSIGNEE'S STATE GA	No. of pieces 1	
Hold & not	Rate class (SCR)	Account #	Form of payment Type Exo. date	Weight charge
Third party	Rate class (SCR)	Account #	Form of payment Type Exo. date	Valuation charge
NAME	Rate class (SCR)	Account #	Form of payment Type Exo. date	Fuel
It is agreed that the goods described herein are accepted in apparent good order and condition except as noted by carrier. Both shipper and consignee agree that the shipper has declared contents and weight of contents and that the carrier is not responsible for any loss or damage to contents and made part of this contract. In addition, any customer contract applies.	Rate class (SCR)	Account #	Form of payment Type Exo. date	Freight processing fee MC
Signature	Rate class (SCR)	Account #	Form of payment Type Exo. date	Taxes
Signature of shipper or agent above and initial applicable box below	Rate class (SCR)	Account #	Form of payment Type Exo. date	Other
<input checked="" type="checkbox"/> This shipment does not contain dangerous goods	Rate class (SCR)	Account #	Form of payment Type Exo. date	Total
Origin station code/location by <u>ATL</u> <u>12/30/2022</u>	Rate class (SCR)	Account #	Form of payment Type Exo. date	
Destination station code/location by <u>SAV</u> <u>12/30/2022</u>	Rate class (SCR)	Account #	Form of payment Type Exo. date	

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CGACZZQP-NUMBER (REV. 01/20)
 Part 1 Shipper Part 2 Delivery Part 3 Consignee, Part 4 Destination Airport, Part 5 Carrier Part 6 Airport of Origin
 016 31339313



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-121801-1

Login Number: 121801

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

List Creation: 01/11/23 01:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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?	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	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

