



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 5/2/2023 1:22:29 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126438-1

Eurofins Seattle

Job Notes

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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
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Case Narrative

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

Job ID: 580-126438-1

Job ID: 580-126438-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126438-1

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

Ten samples were received on 4/21/2023 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.7° C.

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

GLYCOLS

Samples AF-RHMW17-WGN01LF-2304W3 (580-126438-1), AF-RHMW17S-WGN01LF-2304W3 (580-126438-2), AF-RHMW17S-WQEB01-2304W3 (580-126438-3), AF-RHMW04-WGN01LF-2304W3 (580-126438-4), AF-RHMW06-WGN01LF-2304W3 (580-126438-5), AF-RHMW10-WGN01LF-2304W3 (580-126438-6), AF-HDMW225303-WGN01LF-2304W3 (580-126438-7), AF-RHMW16-WGN01LF-2304W3 (580-126438-8), AF-RHMW12A-WGN01LF-2304W3 (580-126438-9) and AF-RHMW12A-WGFD01LF-2304W3 (580-126438-10) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/01/2023.

The continuing calibration verification (CCV) associated with batch 680-776112 recovered outside acceptance criteria, low biased, for 2-(2-Butoxyethoxy)ethanol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data has been reported.

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: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 580-126438-1

Client Sample ID: AF-RHMW17-WGN01LF-2304W3

Lab Sample ID: 580-126438-1

Date Collected: 04/20/23 11:55

Matrix: Water

Date Received: 04/21/23 13:30

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 Q	5.0	1.1	mg/L			05/01/23 05:29	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: 580-126438-1

Client Sample ID: AF-RHMW17S-WGN01LF-2304W3

Lab Sample ID: 580-126438-2

Date Collected: 04/20/23 09:45

Matrix: Water

Date Received: 04/21/23 13:30

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 Q M	5.0	1.1	mg/L			05/01/23 07:25	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: 580-126438-1

Client Sample ID: AF-RHMW17S-WQEB01-2304W3

Lab Sample ID: 580-126438-3

Date Collected: 04/20/23 07:55

Matrix: Water

Date Received: 04/21/23 13:30

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 Q	5.0	1.1	mg/L			05/01/23 07:48	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: 580-126438-1

Client Sample ID: AF-RHMW04-WGN01LF-2304W3

Lab Sample ID: 580-126438-4

Date Collected: 04/19/23 10:55

Matrix: Water

Date Received: 04/21/23 13:30

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 Q	5.0	1.1	mg/L			05/01/23 08:12	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: 580-126438-1

Client Sample ID: AF-RHMW06-WGN01LF-2304W3

Lab Sample ID: 580-126438-5

Date Collected: 04/19/23 14:40

Matrix: Water

Date Received: 04/21/23 13:30

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 Q	5.0	1.1	mg/L			05/01/23 08:35	1

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

Client Sample Results

Client: AECOM

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2304W3

Lab Sample ID: 580-126438-6

Date Collected: 04/18/23 14:30

Matrix: Water

Date Received: 04/21/23 13:30

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 Q	5.0	1.1	mg/L			05/01/23 08:58	1

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

Client Sample Results

Client: AECOM

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2304W3

Lab Sample ID: 580-126438-7

Date Collected: 04/18/23 11:00

Matrix: Water

Date Received: 04/21/23 13:30

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			05/01/23 15:45	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: 580-126438-1

Client Sample ID: AF-RHMW16-WGN01LF-2304W3

Lab Sample ID: 580-126438-8

Date Collected: 04/19/23 12:10

Matrix: Water

Date Received: 04/21/23 13:30

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			05/01/23 16:09	1

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

Client Sample Results

Client: AECOM

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2304W3

Lab Sample ID: 580-126438-9

Date Collected: 04/19/23 10:00

Matrix: Water

Date Received: 04/21/23 13:30

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			05/01/23 16:32	1

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

Client Sample Results

Client: AECOM

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W3

Lab Sample ID: 580-126438-10

Date Collected: 04/19/23 10:00

Matrix: Water

Date Received: 04/21/23 13:30

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			05/01/23 16:55	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: 580-126438-1

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

Lab Sample ID: MB 680-776112/11
Matrix: Water
Analysis Batch: 776112

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			05/01/23 03:57	1

Lab Sample ID: LCS 680-776112/5
Matrix: Water
Analysis Batch: 776112

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	21.0		mg/L		105	50 - 150

Lab Sample ID: LCSD 680-776112/6
Matrix: Water
Analysis Batch: 776112

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	18.7		mg/L		93	50 - 150	12	50

Lab Sample ID: 580-126438-1 MS
Matrix: Water
Analysis Batch: 776112

Client Sample ID: AF-RHMW17-WGN01LF-2304W3
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 Q	20.0	20.4		mg/L		102	50 - 150

Lab Sample ID: 580-126438-1 MSD
Matrix: Water
Analysis Batch: 776112

Client Sample ID: AF-RHMW17-WGN01LF-2304W3
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 Q	20.0	19.6		mg/L		98	50 - 150	4	50

Lab Sample ID: MB 680-776218/9
Matrix: Water
Analysis Batch: 776218

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			05/01/23 14:59	1

Lab Sample ID: LCS 680-776218/5
Matrix: Water
Analysis Batch: 776218

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	18.0		mg/L		90	50 - 150

Lab Sample ID: LCSD 680-776218/6
Matrix: Water
Analysis Batch: 776218

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	17.6		mg/L		88	50 - 150	2	50

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Lab Chronicle

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

Job ID: 580-126438-1

Client Sample ID: AF-RHMW17-WGN01LF-2304W3

Lab Sample ID: 580-126438-1

Date Collected: 04/20/23 11:55

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 05:29

Client Sample ID: AF-RHMW17S-WGN01LF-2304W3

Lab Sample ID: 580-126438-2

Date Collected: 04/20/23 09:45

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 07:25

Client Sample ID: AF-RHMW17S-WQEB01-2304W3

Lab Sample ID: 580-126438-3

Date Collected: 04/20/23 07:55

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 07:48

Client Sample ID: AF-RHMW04-WGN01LF-2304W3

Lab Sample ID: 580-126438-4

Date Collected: 04/19/23 10:55

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 08:12

Client Sample ID: AF-RHMW06-WGN01LF-2304W3

Lab Sample ID: 580-126438-5

Date Collected: 04/19/23 14:40

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 08:35

Client Sample ID: AF-RHMW10-WGN01LF-2304W3

Lab Sample ID: 580-126438-6

Date Collected: 04/18/23 14:30

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776112	GEM	EET SAV	05/01/23 08:58

Client Sample ID: AF-HDMW225303-WGN01LF-2304W3

Lab Sample ID: 580-126438-7

Date Collected: 04/18/23 11:00

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 15:45

Lab Chronicle

Client: AECOM

Job ID: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2304W3

Lab Sample ID: 580-126438-8

Date Collected: 04/19/23 12:10

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 16:09

Client Sample ID: AF-RHMW12A-WGN01LF-2304W3

Lab Sample ID: 580-126438-9

Date Collected: 04/19/23 10:00

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 16:32

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W3

Lab Sample ID: 580-126438-10

Date Collected: 04/19/23 10:00

Matrix: Water

Date Received: 04/21/23 13:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 16:55

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: 580-126438-1

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: 580-126438-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126438-1	AF-RHMW17-WGN01LF-2304W3	Water	04/20/23 11:55	04/21/23 13:30
580-126438-2	AF-RHMW17S-WGN01LF-2304W3	Water	04/20/23 09:45	04/21/23 13:30
580-126438-3	AF-RHMW17S-WQEB01-2304W3	Water	04/20/23 07:55	04/21/23 13:30
580-126438-4	AF-RHMW04-WGN01LF-2304W3	Water	04/19/23 10:55	04/21/23 13:30
580-126438-5	AF-RHMW06-WGN01LF-2304W3	Water	04/19/23 14:40	04/21/23 13:30
580-126438-6	AF-RHMW10-WGN01LF-2304W3	Water	04/18/23 14:30	04/21/23 13:30
580-126438-7	AF-HDMW225303-WGN01LF-2304W3	Water	04/18/23 11:00	04/21/23 13:30
580-126438-8	AF-RHMW16-WGN01LF-2304W3	Water	04/19/23 12:10	04/21/23 13:30
580-126438-9	AF-RHMW12A-WGN01LF-2304W3	Water	04/19/23 10:00	04/21/23 13:30
580-126438-10	AF-RHMW12A-WGFD01LF-2304W3	Water	04/19/23 10:00	04/21/23 13:30



Eurofins FGS, Seattle
 5755 8th Street East
 Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing
 America

United AWB 016-73024832

Client Information		Sampler: Elaine Walker	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx United	COC No: 2304W3AFEA10																												
Client Contact:		Phone: 248 420 3748	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1																												
Company: AECOM		PWSID:	Analysis Requested																														
Address: 1001 Bishop St Suite 1600		Due Date Requested: see subcontract																															
City: Honolulu		TAT Requested (days): Rush - 5 Day																															
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 #:																															
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Eurofins FGS, Seattle
 5755 8th Street East
 Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing
 America

United APTS 016-73024862

Client Information		Sampler: <i>E. Martin</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): <i>ExdEx United</i>	COC No: 2304W3AFEA12																								
Client Contact:		Phone: <i>317-599-7817</i>	E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	State of Origin: Hawaii	Page: Page 1 of 1																								
Company: AECOM		PWSID:	Analysis Requested																										
Address: 1001 Bishop St Suite 1600		Due Date Requested: see subcontract	<div style="border: 1px solid black; padding: 5px;"> <p style="font-size: small; margin: 0;">1016C_DAL_G_L_D47 2-(2-butoxyethyl)-ethanol</p> </div>																										
City: Honolulu		TAT Requested (days): Rush - 5 Day																											
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																											
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AF-RHMW17S-WGN01LF-2304W3		<i>04/20/23</i>	<i>0945</i>	G	W	N N X																							
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Ver: 01/16/2019

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Chain of Custody Record

eurofins
Environment Testing
America

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State, Zip: Hawaii 96813			Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<div style="border: 1px solid black; padding: 5px;"> <table border="1"> <tr> <td colspan="14">Special Instructions/Note:</td> </tr> <tr> <td colspan="14"></td> </tr> </table> </div>					Special Instructions/Note:																																																							
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Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
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Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM.EQUIS EDD.	Special Instructions/QC Requirements: DOD QSM project
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Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: Clara Un	Date/Time: 4/19/23 1640	Company: AECOM	Received by: Miranda Debarano	Date/Time: 4/20/23 1640	Company: AECOM
Relinquished by: Miranda Debarano	Date/Time: 4/20/23 1445	Company: AECOM	Received by: (Signature)	Date/Time: 4/20/23 1330	Company: 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: 4.3/5.3
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Ver. 01/16/2019

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America

United AWR 016-73024862

Client Information Client Contact:		Sampler: <i>Oliver UN</i> Phone: <i>808.954.5104</i> PWSID:	Lab PM: Elaine Walker E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i> PWSID:	Carrier Tracking No(s): <i>FEDEX United</i> State of Origin: <i>Hawaii</i>	COC No: 2304W3AFEA09 Page: Page 1 of 1 Job #:																			
Company: <i>AECOM</i> Address: <i>1001 Bishop St. Suite 1600</i> City: <i>Honolulu</i> State, Zip: <i>Hawaii 96813</i> Phone: <i>808-954-4512 / 770-331-0794</i> Email: <i>Watson.Tanji(watson.tanji@aecom.com) / Mark.Kromis(mark.kromis@aecom.com)</i> Project Name: <i>CTO N6274223F0104</i> Site: <i>RHSF</i>		Analysis Requested Due Date Requested: <i>see subcontract</i> TAT Requested (days): <i>Rush - 5 Day</i> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: _____ WO #: _____ Project #: <i>60697810</i> SSO#: _____			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)																			
Sample Identification <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (Water, Spool, Overpack, ETYLUK, AMM)</th> <th>Matrix</th> <th>Matrix</th> <th>Matrix</th> <th>Matrix</th> </tr> </thead> <tbody> <tr> <td><i>AF-RHMW06-WGN01LF-2304W3</i></td> <td><i>4-19-23</i></td> <td><i>1440</i></td> <td><i>G</i></td> <td><i>W</i></td> <td><i>N</i></td> <td><i>N</i></td> <td><i>X</i></td> <td></td> </tr> </tbody> </table>		Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Spool, Overpack, ETYLUK, AMM)	Matrix	Matrix	Matrix	Matrix	<i>AF-RHMW06-WGN01LF-2304W3</i>	<i>4-19-23</i>	<i>1440</i>	<i>G</i>	<i>W</i>	<i>N</i>	<i>N</i>	<i>X</i>		Total Number of Samples: _____			Special Instructions/Note:	
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Spool, Overpack, ETYLUK, AMM)	Matrix	Matrix	Matrix	Matrix																
<i>AF-RHMW06-WGN01LF-2304W3</i>	<i>4-19-23</i>	<i>1440</i>	<i>G</i>	<i>W</i>	<i>N</i>	<i>N</i>	<i>X</i>																	
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			Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard JAT AECOM QULS FDD Special Instructions/QC Requirements: <i>DOD QSM project.</i>																			
Empty Kit Relinquished by: _____ Relinquished by: <i>Oliver UN</i> Date/Time: <i>4-19-23</i> Date: <i>1640</i> Company: <i>AECOM</i>		Relinquished by: <i>Miranda DeGama</i> Date/Time: <i>4/21/23</i> Date: <i>1640</i> Company: <i>AECOM</i>		Relinquished by: _____ Date/Time: _____ Date: _____ Company: _____																				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____		Cooler Temperature in °C and Other Remarks: <i>4.7/5.3</i>																						

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Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424

Chain of Custody Record

euofins
816-73224822 Environment Testing
America

United AWB ~~1625570~~

Client Information			Sampler: <i>Eli Martin</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2304W3AFE03	
Client Contact:			Phone: <i>617-999-3612</i>	E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	State of Origin: Hawaii	Page: Page 1 of 1	
Company: AECOM		PWSID:		Analysis Requested			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>EM 04/18/23</i> </div>			
City: Honolulu		TAT Requested (days): Rush - 5 Day					
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)		WVO #:		Preservation Codes:			
Project Name: CTO N6274223F0104		Project #: 60697810		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 - EDTA Z - other (specify)			
Site: RHSF		SSOW#:		Other:			
Sample Identification			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=sediment, G=soil, etc.)	Preservation Code
AF-RHWW10-WGN01LF-2304W3			<i>04/18/23</i>	<i>1430</i>	G	W	N N X
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>EM 04/18/23</i> </div>							
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 EQUIS EDD		Special Instructions/QC Requirements: DOD QSM project.			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Eli Martin</i>		Date/Time: <i>04/18/23 1515</i>		Company: AECOM		Received by: <i>Nicanda DeCarmon</i>	
Relinquished by: <i>Nicanda DeCarmon</i>		Date/Time: <i>4/20/23 1445</i>		Company: AECOM		Date/Time: <i>4/20/23 1545</i>	
Relinquished by:		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: <i>4.2/5.3</i>			

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 5755 8th Street East
 Tacoma, WA 98424

Chain of Custody Record

United AFB 016-73024802
 016-48351536

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Client Information Client Contact:		Sampler: <i>Eli Martin</i> Phone: <i>617-399-3612</i>	Lab PM: Elaine Walker E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	Carrier Tracking No(s): <i>FedEx</i> State of Origin: <i>Hawaii</i>	COC No: <i>2304W3AFEAD4</i> Page: <i>Page 1 of 1</i>										
Company: <i>AECOM</i> Address: <i>1001 Bishop St. Suite 1600</i> City: <i>Honolulu</i> State, Zip: <i>Hawaii 96813</i> Phone: <i>808-954-4512 / 770-331-0794</i> Email: <i>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</i> Project Name: <i>CTO N6274223F0104</i> Site: <i>RHSF</i>		PWSID:	Analysis Requested												
Due Date Requested: <i>see subcontract</i> TAT Requested (days): <i>Rush - 5 Day</i> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PD #: WO #: Project #: <i>60697810</i> SSOW #:		<table border="1"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PART NUMBER (4-DIGIT)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol</td> <td rowspan="3" style="text-align: center; vertical-align: middle;"><i>EM</i> <i>04/18/23</i></td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PART NUMBER (4-DIGIT)</td> </tr> <tr> <td colspan="2"></td> <td></td> </tr> <tr> <td colspan="2"></td> <td></td> </tr> </table>			PART NUMBER (4-DIGIT)	8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol	<i>EM</i> <i>04/18/23</i>	PART NUMBER (4-DIGIT)							Job #:
PART NUMBER (4-DIGIT)	8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol				<i>EM</i> <i>04/18/23</i>	PART NUMBER (4-DIGIT)									
Sample Identification		Preservation Codes:	Special Instructions/Note:												
AF-HDMW225303-WGN01LF-2304W3	<i>04/18/23</i>	<i>1100</i>	G	W	N	N	X	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 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)							
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 type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
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Empty Kit Relinquished by: <i>Eli Martin</i>		Date/Time: <i>04/18/23 1330</i>	Company: <i>AECOM</i>	Received by: <i>Miranda Degarimo</i>		Date/Time: <i>4/28/23 1330</i>	Company: <i>AECOM</i>								
Relinquished by: <i>Miranda Degarimo</i>		Date/Time: <i>04/28/23 1445</i>	Company: <i>AECOM</i>	Received by: <i>Miranda Degarimo</i>		Date/Time: <i>4/28/23 1330</i>	Company: _____								
Relinquished by: _____		Date/Time: _____	Company: _____	Received by: _____		Date/Time: <i>4/28/23 1330</i>	Company: _____								
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <i>4.7/5.3</i>													

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Chain of Custody Record

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 Environment Testing
 America

UNITED AND 010-4835580

Client Information		Sampler: <i>Eli Martin</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2304W3AFE06			
Client Contact:		Phone: <i>817-599-2614</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1			
Company: AECOM				PWSID:		Analysis Requested					
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>EA</i> <i>4/19/23</i> </div>		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>EA</i> <i>4/19/23</i> </div>					
City: Honolulu		TAT Requested (days): Rush - 5 Day									
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 #:		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 - EDTA Z - other (specify) Other:					
Project Name: CTO N6274223F0104		Project #: 60697810									
Site: RHSF		SSOW#:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=soli, O=soil, BT=Tissue, AA=Air)		Special Instructions/Notes:	
AF-RHMW16-WGN01LF-2304WV3		04/11/23		1200		G		W		N N X	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <i>EA</i> <i>4/11/23</i> </div>											
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Relinquished by: <i>Eli Martin</i>		Date/Time: <i>04/11/23 1300</i>		Company: AECOM		Received by: <i>Miranda DeCarmon</i>		Date/Time: <i>04/11/23 1300</i>		Company: AECOM	
Relinquished by: <i>Miranda DeCarmon</i>		Date/Time: <i>4/12/23 1445</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>4/12/23 1300</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>4.7/5.3</i>							

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Chain of Custody Record

Unit ANB 010-4351586
 616-7302-862
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Client Information		Sampler: <i>Elaine Walker</i>	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2304W3AFEA05																																				
Client Contact:		Phone: <i>617-599-3612</i>	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1																																				
Company: AECOM		PWSID:		Analysis Requested																																					
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Relinquished by: <i>Miranda DeCarlo</i>	Date/Time: <i>4/20/23 1445</i>	Company: AECOM	Received by: <i>[Signature]</i>	Date/Time: <i>4/20/23 1445</i>	Company: AECOM																																				
Relinquished by:	Date/Time: <i>0</i>	Company:	Received by:	Date/Time: <i>4/21/23 1370</i>	Company:																																				
Custody Seals Intact: Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																																							

Ver: 01/16/2019
 4-7/5-3

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 5755 8th Street East
 Tacoma WA 98424

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 America

Chain of Custody Record

Washed LWB 516-7307-4822

Client Information Client Contact: Elaine Walker Phone: 248 425 3748 E-Mail: Elaine.Walker@EurofinsET.com State of Origin: Hawaii Job #:		Lab P/M: Elaine Walker E-Mail: Elaine.Walker@EurofinsET.com State of Origin: Hawaii		COC No: 2304W3AFE10 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@aeacom.com / Mark.Kromis@aeacom.com Project Name: CTO N6274223F0104 Site: RHSF		Due Date Requested: See subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: W/O #: Project #: 60697810 SSOW#:		Analysis Requested 8015C_DAI_GL_D5/2-(2-butylxyethoxy)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N N X Total Number of Containers: 2	
Sample Identification AF-RHMM17-WGN01LE-2304W3		Sample Date: 4/20/23 Sample Time: 11:00 AM Sample Type: G Preservation Code: W	Matrix: None On-wash: <input type="checkbox"/> In-tissue: <input type="checkbox"/> A-AT: <input type="checkbox"/>	Special Instructions/Note: 580-126438 Chain of Custody	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer) <input type="checkbox"/> Return To Client <input type="checkbox"/> Dispose By Lab <input type="checkbox"/> Archive For			
Deliverable Requested: I II III IV Other (specify)		Prelim data (Level for 2)=see TAT above DoD Stage 4. report standard IAT. AECOM EquiS EDD.			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: El Noun		Date/Time: 4/20/23 1340 Company: AECOM	Received by: [Signature] Date/Time: 4/21/23 1330 Company: AECOM		
Relinquished by: [Signature]		Date/Time: 4/20/23 1445 Company: AECOM	Received by: [Signature] Date/Time: 4/21/23 1330 Company: AECOM		
Relinquished by:		Date/Time:	Received by:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3			



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Chain of Custody Record

Contracted Analysis 016-7302482

Client Information		Sampler: Elaine Walker		Lab PM: Elaine Walker		COC No: 2304W3AFE12	
Client Contact: W. Elaine Walker@EurofinsET.com		Phone: 310-991-1111		E-Mail: W.Elaine.Walker@EurofinsET.com		Order Tracking No(s): EADEx U.S. EPA	
Company: AECOM		Address: 1001 Bishop St. Suite 1600		City: Honolulu		State: Hawaii	
State: HI		Zip: 96813		Phone: 808-954-4512 / 770-331-0794		Project Name: CTO N6274223F0104	
Email: Watson.Tanji@aecom.com / Mark.Kronis@aecom.com		PO #: 60697810		WO #: 60697810		SSOW#: RHSE	
Due Date Requested: See subcontract		TAT Requested (days): Rush - 5 Day		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PWSID:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Wastewater, I=In-Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
AF-RHMMW17S-WGN01F-2304W3	5/19/23	6:45	G	W	N	N	N
AF-RHMMW17S-WQEB01-2304W3	5/19/23	7:55	G	W	N	N	N
Possible Hazard Identification		Prelim data (Level 1 or 2) = see TAT above DoD Stage 4 report standard IAT - AECOM EQUIS EDD.		<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		<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		Relinquished by		Relinquished by	
Date/Time: 5/19/23 1340		Date/Time: 5/19/23 1340		Date/Time: 5/19/23 1340		Date/Time: 5/19/23 1340	
Company: AECOM		Company: AECOM		Company: AECOM		Company: AECOM	
Custody Seal No		Custody Seal No		Custody Seal No		Custody Seal No	
Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Cooler Temperature(s) °C and Other Remarks: 4.7/5.3		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3	



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Chain of Custody Record

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United AWR 016-7362-482

Client Information Client Contact: Elaine Walker Phone: 808-666-6604 E-Mail: Elaine.Walker@EurofinsET.com Job #: State of Origin: Hawaii Carrier Tracking No(s): 2304W3AFE08 Page: Page 1 of 1		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: RHSF		Analysis Requested Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No FO #: WO #: Project #: SOW #: 8015C, DAL, GL, OS/ 2-(2-butoxyethyl)ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Sample Identification AF-RHMW04-WGN01LF-2304W3 Sample Date: 4/12/23 Sample Time: 1445 Sample Type: G Matrix: (see matrix, or swab, or tissue, or skin) Preservation Code: W Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Special Instructions/Note Total Number of Containers: 0	
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 checked="" type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify)		Empty Kit Relinquished by Relinquished by: JARA UN Date: 4/12/23 Time: 1640 Company: AECOM		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.		Relinquished by Relinquished by: WAKARUTA DEBARNS Date: 4/12/23 Time: 1330 Company: AECOM			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3		Received by: MIRENKA JETER Date/Time: 4/19/23 Company: AECOM		Received by: [Signature] Date/Time: 4/20/23 Company: AECOM			



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Chain of Custody Record

Wanted AWS 016-7324802

Client Information		Lab PM: Elaine Walker	Carrier Tracking No(s): 2304W3AFE09
Company: AECOM		Phone: Laura M	Page: Page 1 of 1
Address: 1001 Bishop St, Suite 1600		Email: Elaine.Walker@EurofinsET.com	Job #:
City: Honolulu		State of Origin: Hawaii	
State Zip: Hawaii 96813			
Phone: 808-954-4512 / 770-331-0794			
Email: Watson.Tanji@eurofins.com / Mark.Kromis@aecom.com			
Project Name: CTO N6274223F0104			
Site: RH5F			
WC #: 60627610			
SSOW#:			
Date Requested: see subcontract			
TAT Requested (days):			
Rush - 5 Day			
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			
PO #:			
WC #:			
Project #:			
Sample Date: 4/23			
Sample Time: 1440			
Sample Type: G			
Matrix: W			
Sample ID: AF-RHMM06-WGN01LF-2304W3			
Sample Identification			
AF-RHMM06-WGN01LF-2304W3			
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 <input type="checkbox"/> Deliverable Requested I II III IV Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: Laura M		Date: 4/23	Time: 1640
Relinquished by: Mirona Tava Dela...		Date: 4/23	Time: 1830
Relinquished by:		Date:	Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature: °C and Other Remarks: 4.7/5.3	



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 Environment Testing
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 816-730-4832
 W. Fred A. W. B. 4621330

Chain of Custody Record

Client Information Client Contact: Elaine Walker Phone: 617-599-3612 PWSID:		Lab P.I.: Elaine Walker E-Mail: Elaine.Walker@EurofinsET.com State of Origin: Hawaii		Carier Tracking No(s): 2304W3AFE03 Page: 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: 60697810 SSON#:		Analysis Requested 8015c_DAL_GL_DSr_2-(2-butoxyethoxy)-ethanol 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: 6		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amohlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification AF-RHMW10-WGN01LF-2304W3 Sample Date: 04/18/23 Sample Time: 1439 Matrix: Sample Type (C=Comp, G=grab): G Preservation Code: W		Matrix: Sample Type (C=Comp, G=grab): Preservation Code:		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 checked="" 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:		Relinquished by: <i>Elie Martin</i> Relinquished by: <i>Micanda Dekame</i> Relinquished by:		Method of Shipment:	
Date/Time: 04/18/23 1515 Date/Time: 4/20/23 1445 Date/Time:		Received by: <i>Micanda Dekame</i> Received by: <i>Micanda Dekame</i> Received by:		Date/Time: 4/19/23 1545 Date/Time: 4/21/23 1730 Date/Time:	
Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com Project Name: CTO N6274223F0104 Site: RH5F		Company: AECOM Company: AECOM Company: AECOM		Cooler Temperature(s) °C and Other Remarks: 4.2/5.3	



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016-73024802
 united ANB
 04/18/23

Client Information Company: AECOM Address: 1001 Bishop St, Suite 1600 City: Honolulu State: HI 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 PM: Elaine Walker E-Mail: Elaine.Walker@EurofinsET.com State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: MO #: Project #: 60697810 SOW#:		Camer Tracking No(s): 2304W3AFEA04 Preservation Codes: M Hexane A - HCL B - NaOH C - Zn Acetate D Nitric Acid E NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I Ice J - DI Water K - EDTA L - EDA Other:	
Sample ID: AF-HDMW225303-WGND1LF-2304W3 Sample Date: 04/18/23 Sample Time: 1100 Sample Type (C=Comp, G=grab): G Matrix (Water, Solid, Swastool, Other): Preservation Code: W		Analysis Requested: Total Number of Containers: 3 Special Instructions/Note:	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: E. Martin Date/Time: 04/18/23 1530 Relinquished by: Miriana DeGarme Date/Time: 04/18/23 1930 Relinquished by:		Received by: Miriana DeGarme Date/Time: 04/18/23 1930 Received by:	
Empty Kit Relinquished by:		Method of Shipment:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3	



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Chain of Custody Record

816-7302-1862
 UNITED AND 04824580

Client Information Company: AECOM Address: 1001 Bishop St, Suite 1600 City: Honolulu State: HI Zip: 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project #: CTO N6274223F0104 Site: RH5F		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WOC #: Project #: 60697810 SOW #:		Carrier Tracking No(s): 2304W9AFAE06 Page: Page 1 of 1 Job #:	
Analysis Requested 8015C_DAL_GL_DS1 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 Matrix (W=water, S=solids, O=wastewater, E=environmental) <input checked="" type="checkbox"/> W			
Sample Identification AF-RH5W16-WGN01LF-2304W3 Sample Date: 04/11/23 Sample Time: 11:00 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 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 Archive For _____ Months	
Empty Kit Relinquished by Relinquished by: Eli Moran Date: 04/11/23 Company: AECOM Relinquished by: M. ardo Date: 04/11/23 Company: AECOM Relinquished by:			
Custody Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 4.7/5.3			



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Chain of Custody Record

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616-7302-4862
 WATER ANALYSIS

Client Information Client Contact: Elaine Walker Company: AECOM Address: 1001 Bishop St. Suite 1600 City: Honolulu State Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@atcom.com / Mark.Kromis@atcom.com Project Name: CTO N6274223F0104 Site: RHSF		Lab PII: Elaine Walker Email: Elaine.Walker@EurofinsET.com Carrier Tracking No(s): 2304W3AFEA05 State of Origin: Hawaii Page: Page 1 of 1 Job #:	
Due Date Requested: See subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSCOW#:		Analysis Requested 8015C_DAL_GL_DS(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: 3	
Sample Identification AF-RHMW12A-WGN01LF-2304W3 AF-RHMW12A-WGFD01LF-2304W3		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 L - EDTA Z - 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/OC Requirements DOD QSM project	
Endov. Kit Relinquished by Relinquished by: El. Walker Relinquished by: Relinquished by:		Method of Shipment: 4/17/22 Received by: Received by: Received by:	
Custody Seals Intact: <input checked="" type="checkbox"/> Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 4.7/5.3 Ver: 01/16/2019	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126438-1

Login Number: 126438

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

List Creation: 04/26/23 02:51 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?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	