

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

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 2/14/2023 4:35:02 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123229-1

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: 580-123229-1

Job ID: 580-123229-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling

Report Number: 580-123229-1

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

Three samples were received on 2/8/2023 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

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

GLYCOLS

Samples AF-RHMW03-WGN01LF-2301W5 (580-123229-1), AF-HDMW225303-WGN01LF-2301W5 (580-123229-2) and AF-RHMW02-WGN01LF-2301W5 (580-123229-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/10/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-123229-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

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

Job ID: 580-123229-1

Client Sample ID: AF-RHMW03-WGN01LF-2301W5

Lab Sample ID: 580-123229-1

Date Collected: 01/30/23 15:10

Matrix: Water

Date Received: 02/08/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/10/23 20:07	1

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

Client Sample Results

Client: AECOM

Job ID: 580-123229-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2301W5

Lab Sample ID: 580-123229-2

Date Collected: 01/31/23 11:15

Matrix: Water

Date Received: 02/08/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/10/23 21:17	1

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

Client Sample Results

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

Job ID: 580-123229-1

Client Sample ID: AF-RHMW02-WGN01LF-2301W5

Lab Sample ID: 580-123229-3

Date Collected: 01/30/23 11:45

Matrix: Water

Date Received: 02/08/23 11:00

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/10/23 21:41	1

- 1
- 2
- 3
- 4
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- 10
- 11

QC Sample Results

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

Job ID: 580-123229-1

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

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

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

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

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

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

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

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

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

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

Lab Sample ID: 580-123229-1 MS
Matrix: Water
Analysis Batch: 762871

Client Sample ID: AF-RHMW03-WGN01LF-2301W5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	15.3		mg/L		77	50 - 150

Lab Sample ID: 580-123229-1 MSD
Matrix: Water
Analysis Batch: 762871

Client Sample ID: AF-RHMW03-WGN01LF-2301W5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	20.4		mg/L		102	50 - 150	28	50

Lab Chronicle

Client: AECOM

Job ID: 580-123229-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2301W5

Lab Sample ID: 580-123229-1

Date Collected: 01/30/23 15:10

Matrix: Water

Date Received: 02/08/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 20:07

Client Sample ID: AF-HDMW225303-WGN01LF-2301W5

Lab Sample ID: 580-123229-2

Date Collected: 01/31/23 11:15

Matrix: Water

Date Received: 02/08/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 21:17

Client Sample ID: AF-RHMW02-WGN01LF-2301W5

Lab Sample ID: 580-123229-3

Date Collected: 01/30/23 11:45

Matrix: Water

Date Received: 02/08/23 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	762871	JCK	EET SAV	02/10/23 21:41

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: 580-123229-1

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: 580-123229-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123229-1	AF-RHMW03-WGN01LF-2301W5	Water	01/30/23 15:10	02/08/23 11:00
580-123229-2	AF-HDMW225303-WGN01LF-2301W5	Water	01/31/23 11:15	02/08/23 11:00
580-123229-3	AF-RHMW02-WGN01LF-2301W5	Water	01/30/23 11:45	02/08/23 11:00

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Chain of Custody Record

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 N627423F0104 Site: RHSF		Lab PII: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com PWSID:		Carrier Tracking No(s): 2301W5AFE02 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 type="checkbox"/> No PO #: WO #: Project #: 60697810 SSO# #:		Analysis Requested 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol Total Number of Containers: 3			
Sample Identification AF-RHMW03-WGN01LF-2301W5		Sample Date: 1/30/23 Sample Time: 1540 Sample Type (G=grab): G Matrix (W=water, S=solid, O=volatile, B=bioassay, A=air)	Field Filtered Sample (Yes or No): N Perform MS/MSD (Yes or No): N 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
Special Instructions/Note: AF-RHMW03-WGN01LF-2301W5 MN 1/30/23		Special Instructions/Note: AF-RHMW03-WGN01LF-2301W5 MN 1/30/23			
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) 4 report standard TAT - AECOM EQUIS EDD		Special Instructions/QC Requirements: DOD QSM project.			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: Matt Yin, Matt Yin Date/Time: 1/30/23 1820 Company: AECOM		Received by: Alex Edmonds Date/Time: 1/30/23 1820 Company: AECOM			
Relinquished by: Alex Edmonds Date/Time: 1/31/23 1230 Company: AECOM		Received by: Alex Edmonds Date/Time: 1/31/23 1230 Company: AECOM			
Relinquished by:		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.4/4.4			



Chain of Custody Record

Client Information	Sampler: NOAH TURNER Lab PM: Elaine Walker Carrier Tracking No(s): FedEX Client Contact: Phone: (781) 366-4777 E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii Job #: Page 1 of 1 COC No: 2301WSAFEA04	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 SSO/W#: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com) Project Name: CTO N6274223F0104 Site: RH5F	Analysis Requested Total Number of Containers: 3 Preservation Codes: M - Hexane A - HCL B - NaOH N - None O - AsNaO2 C - Zn Acetate D - Nitric Acid P - Na2OAS E - NaHSO4 F - MeOH G - Anchlor R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate H - Ascorbic Acid I - Ice U - Acetone J - DI Water V - MCAA W - pH 4.5 K - EDTA L - EDA Z - other (Specify) Other:
Sample Identification	Sample Date: 1/31/2023 Sample Time: 1115 Sample Type (C=Comp, G=grab): G Matrix (flow water, surface water, on-site soil, on-tissue, swab): Preservation Code: A Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8015C DAL GL DS 2-(2-butoxyethoxy)-ethanol	AF-HDMW225303-WGN01LF-2301W5 TAT 1/31/2023	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 checked="" type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: Relinquished by: NOAH TURNER Relinquished by: Miranda DeGourno Relinquished by: Date: 1/31/2023 1125 Date: 1/31/23 1125 Date: 2/8/23 1100 Date: 4/4/24 Company: AECOM Company: AECOM Company: AECOM Company:			
Custody Seals intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record

Client Information
 Client Contact: Matt Yin
 Phone: 808-344-4738
 E-Mail: M.Elaine.Walker@EurofinsET.com

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

Lab P/N: Elaine Walker
E-Mail: M.Elaine.Walker@EurofinsET.com
Carrier Tracking No(s): FedEx
State of Origin: Hawaii

COC No: 2301W5AFE01
Page: Page 1 of 1
Job #:

Analysis Requested

Due Date Requested: see subcontract
 TAT Requested (days): Rush - ASAP
 Compliance Project: Yes No
 PO #:
 WO #:
 Project #: 60697810
 SSOWF:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Form Filled Sample (Yes or No)	8015C, DAI, GL, D5/2-bis(oxethyl)-ethanol	Field Filtered Sample (Yes or No)	Preservation Code	Total Number of Containers	Special Instructions/Note:
AF-RHMW02-WGN01LE-2301W5	1/30/23	1145	G	W	X	X	N	A	3	

Preservation Codes:
 A - HCl
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

M - Hexane
 N - None
 O - Acetone
 P - N2OAS
 Q - N2S03
 R - N2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

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.

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Time: _____

Relinquished by: Matt Yin Matt Yin Company: AECOM Date/Time: 1/30/23 1820

Relinquished by: Alex Edmonds Company: AECOM Date/Time: 1/31/23 1220

Relinquished by: _____ Company: _____ Date/Time: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Cooler Temperature(s): 4.4/4.4

Ver: 01/16/2019

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Chain of Custody Record

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.Kronis@aecom.com Project Name: CTO N6274223F0104 Site: RH5F		Lab Pw: Elaine Walker State of Origin: Hawaii Carrier Tracking No(s): FedEX State of Origin: Hawaii Mailing: M. Elaine Walker@EurofinsET.com		COC No: 2301W5AFEAO2 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 SSO#:		Analysis Requested Total Number of Containers: 3 Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filled Sample (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			
Sample Identification AF-RHMW03-WGN01LF-2301W5 Sample Date: 1/30/23 Sample Time: 15:00 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=organic, B=biological, P=plasma, A=air) 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 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - 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) <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: Matt Yin, Worth Yin Relinquished by: Alex Edwards Relinquished by:		Date: 1/30/23 18:00 Date/Time: 1/31/23 12:00 Date/Time:			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 4.4/4.4 Ver 01/16/2019			



Chain of Custody Record

Client Information		Sampler: NOAH TURNER	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEX	COC No: 2301WSAFE04
Client Contact:		Phone: (781) 366-4777	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: 1 of 1
Company: AECOM		PWSID:		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract	Analysis Requested		
City: Honolulu		TAT Requested (days): Rush - ASAP	Total Number of Containers: 3		
State Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Preservation Codes		
Phone: 808-954-4512 / 770-331-0794		PO #:	M Hexane A - HCL N - None O - AsNaO2 P - Na2O4S D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L EDA Other		
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:	Special Instructions/Note:		
Project Name: CTO N6274223F0104		Project #: 60697810			
Site: RHSF		SSOW#:			
Sample Identification		Sample Date: 1/31/2023	Sample Time: 1115	Sample Type (C=Comp, G=grab): G	Matrix (Water, Soil, Sediment, Air, etc.):
AF-HDMW225303-WGN01LF-2301W5		Sample Date: 1/31/2023	Sample Time: 1115	Sample Type (C=Comp, G=grab): G	Matrix (Water, Soil, Sediment, Air, etc.):
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"/> Radological <input type="checkbox"/> Other			
Deliverable Requested: I II III IV Other (specify)		Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4 report standard TAT - AECOM EQUIS EDD.			
Empty Kit Relinquished by:		Date: 1/31/2023 / 1125 Received by: <i>Miranda DeGortome</i> Company: AECOM			
Relinquished by: <i>NOAH TURNER</i>		Date: 1/31/23 / 1125 Received by: <i>Miranda DeGortome</i> Company: AECOM			
Relinquished by: <i>Miranda DeGortome</i>		Date: 1/31/23 / 1220 Received by: <i>Miranda DeGortome</i> Company: AECOM			
Relinquished by:		Date: 1/31/23 / 1100 Received by: <i>Miranda DeGortome</i> Company: AECOM			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No			
		Cooler Temperature(s) °C and Other Remarks: 4.4/4.4			

Chain of Custody Record

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 Name: CTO N6274223F0104 Site: RH5F		Lab PAF: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): FedEx: State of Origin: Hawaii Page 1 of 1 Job #:		COC No: 2301W5AFE01 Analysis Requested:	
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#:		PWSID: 8015C_DAL_GL_DS/2-Z-bis(oxoethyl)-ethanol Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> X Total Number of Containers: 3 Special Instructions/Note:		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amichlor H Ascorbic Acid I - Ice J DI Water K EDTA L EDA Other:	
Sample Identification AF-RHMW02-WGN01LF-2301W5 Sample Date: 1/30/23 Sample Time: 1145 Sample Type (C=Comp, G=grab): G Matrix (W=Water, S=Solid, O=Soil, BT=Tissue, AA=Air)		Date/Time: 1/30/23 1820 Date/Time: 1/31/23 1220 Date/Time:		Received by: Alex Edmonds Received by: Alex Edmonds Received by:	
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"/> Radiological Deliverable Requested I II III IV Other (specify): Empty Kit Relinquished by:		Return To Client <input type="checkbox"/> Archive For _____ Months Disposal By Lab <input type="checkbox"/> Special Instructions/QC Requirements: DOD QSM project. Method of Shipment:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Date/Time: 1/30/23 1820 Date/Time: 1/31/23 1100 Date/Time:	
Relinquished by: <i>Platy Yin</i> Relinquished by: <i>Alex Edmonds</i> Relinquished by:		Company: AECOM Company: AECOM Company:		Company: AECOM Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No:		Cooler Temperature(s) °C and Other Remarks:		4.4/4.4 Ver: 01/16/2019	



Eurofins Savannah Triage Checklist

- Date: 02/08/23
- Time: 11:00 Loc: 580
12323'
- Checked By: AP
- Number of Coolers: 1
- Cooler Type: Hard Styrofoam Box
- Ice Type: Wet Dry GelPack None Other
- Received Via: Fed-Ex (PO) UPS () Bus
Client Drop Off US Mail Courier
BlueStreak Dash Other
- Courier Tracking Number: _____
- Client: ACan
- Thermometer ID: CU1R 32
- Uncorrected Cooler Temps (°C): 5.4
- Correction Factor: 0.0
- Corrected Cooler Temps (°C): 5.4
- Other/ Comments:

- Foreign soil – Yes / No

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-123229-1

Login Number: 123229

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

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

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	