



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

580-120929-1

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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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	16
Chronicle	17
Certification Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

Case Narrative

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

Job ID: 580-120929-1

Job ID: 580-120929-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-120929-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

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

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/07/2022; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.3° 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 ADIT6-DU04A-SON02MI-22DEC (580-120929-1), ADIT6-DU04B-SON02MI-22DEC (580-120929-2), ADIT6-IDW-SON02MI-22DEC (580-120929-3), ADIT6-IDW-SOFD02MI-22DEC (580-120929-4) and ADIT6-IDW-SOFT02MI-22DEC (580-120929-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015C DAI. The samples were leached on 12/15/2022 and analyzed on 12/15/2022 and 12/16/2022.

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

PERCENT SOLIDS

Samples ADIT6-DU04A-SON02MI-22DEC (580-120929-1), ADIT6-DU04B-SON02MI-22DEC (580-120929-2), ADIT6-IDW-SON02MI-22DEC (580-120929-3), ADIT6-IDW-SOFD02MI-22DEC (580-120929-4) and ADIT6-IDW-SOFT02MI-22DEC (580-120929-5) were analyzed for percent solids in accordance with ASTM D2216. The samples were analyzed on 12/13/2022.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-120929-1

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: 580-120929-1

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.01	0.01	%			12/13/22 07:53	1
Percent Solids (EPA Moisture)	80.8		0.01	0.01	%			12/13/22 07:53	1

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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 80.8

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.9	U M	6.3	0.78	mg/Kg	☼		12/15/22 22:09	1

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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.3		0.01	0.01	%			12/13/22 07:53	1
Percent Solids (EPA Moisture)	82.7		0.01	0.01	%			12/13/22 07:53	1

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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 82.7

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.8	U	6.0	0.75	mg/Kg	☼		12/15/22 22:31	1

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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.8		0.01	0.01	%			12/13/22 07:53	1
Percent Solids (EPA Moisture)	84.2		0.01	0.01	%			12/13/22 07:53	1

Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 84.2

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.7	U M	5.7	0.71	mg/Kg	☼		12/15/22 22:54	1

- 1
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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.2		0.01	0.01	%			12/13/22 07:53	1
Percent Solids (EPA Moisture)	83.8		0.01	0.01	%			12/13/22 07:53	1

Client Sample Results

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 83.8

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.8	U	6.0	0.75	mg/Kg	☼		12/15/22 23:17	1

- 1
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- 10
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Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.01	0.01	%			12/13/22 07:53	1
Percent Solids (EPA Moisture)	85.2		0.01	0.01	%			12/13/22 07:53	1

Client Sample Results

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 85.2

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.6	U	5.5	0.68	mg/Kg	☼		12/16/22 22:46	1

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

QC Sample Results

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

Job ID: 580-120929-1

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

Lab Sample ID: MB 680-755329/1-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.5	U	4.9	0.61	mg/Kg			12/15/22 19:53	1

Lab Sample ID: LCS 680-755329/2-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	19.2	19.1		mg/Kg		100	50 - 150

Lab Sample ID: LCSD 680-755329/3-A
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	19.8	20.6		mg/Kg		104	50 - 150	7	50

Lab Sample ID: 580-120929-5 MS
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	1.6	U M	11.5	9.93		mg/Kg	⊛	86	50 - 150

Lab Sample ID: 580-120929-5 MSD
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	11.4	14.0		mg/Kg	⊛	123	50 - 150	34	50

Lab Sample ID: 580-120929-5 DU
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	1.7	U M	mg/Kg	⊛	NC	

Lab Sample ID: 580-120929-5 TRL
Matrix: Solid
Analysis Batch: 755296

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	TRL Result	TRL Qualifier	Unit	D	RSD	RSD Limit
2-(2-Butoxyethoxy)ethanol	1.6	U M	1.7	U M	mg/Kg	⊛	NC	

Lab Chronicle

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-DU04A-SON02MI-22DEC

Lab Sample ID: 580-120929-1

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:09

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-DU04B-SON02MI-22DEC

Lab Sample ID: 580-120929-2

Date Collected: 12/03/22 13:00

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:31

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-IDW-SON02MI-22DEC

Lab Sample ID: 580-120929-3

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 22:54

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Eurofins Seattle

Lab Chronicle

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

Job ID: 580-120929-1

Client Sample ID: ADIT6-IDW-SOFD02MI-22DEC

Lab Sample ID: 580-120929-4

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755296	JCK	EET SAV	12/15/22 23:17

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	754793	WRB	EET SAV	12/13/22 07:53

Client Sample ID: ADIT6-IDW-SOFT02MI-22DEC

Lab Sample ID: 580-120929-5

Date Collected: 12/03/22 12:25

Matrix: Solid

Date Received: 12/07/22 09:45

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			755329	GEM	EET SAV	12/15/22 14:53
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 22:46

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: 580-120929-1

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		Solid	2-(2-Butoxyethoxy)ethanol
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Sample Summary

Client: AECOM

Job ID: 580-120929-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-120929-1	ADIT6-DU04A-SON02MI-22DEC	Solid	12/03/22 13:00	12/07/22 09:45
580-120929-2	ADIT6-DU04B-SON02MI-22DEC	Solid	12/03/22 13:00	12/07/22 09:45
580-120929-3	ADIT6-IDW-SON02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45
580-120929-4	ADIT6-IDW-SOFD02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45
580-120929-5	ADIT6-IDW-SOFT02MI-22DEC	Solid	12/03/22 12:25	12/07/22 09:45

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Chain of Custody Record

Client Information		Sampler		Lab PM					
Company: AECOM	Client Contact: Watson Tanji	Phone: 509-554-0878	Sampler: Maria Rivera	Name: Elaine Walker	E-Mail: M.Elaine.Walker@EurofinsET.com				
Address: 1001 Bishop St, Suite 1600	City: Honolulu	State: HI	Zip: 96813	Carrier Tracking No.: FedEx	State of Origin: Hawaii				
Phone: 808-954-4512	Project Name: NW274223E0104	Project #:	SSOW#:	Analysis Requested					
Project Name: NW274223E0104	Project #:	SSOW#:	Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/>			Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/>			
TAT Requested (days): Rush - ASAP		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes: A - HCL B - NaOH C - Zr/Asorbite D - Nitric Acid E - MCH F - MCH G - Amchlor H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - ASH/2 P - ASH/3 Q - NIS/2 R - NIS/3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)					
Date Requested:		Date:							
Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Weather, Overhead, Brittle, Alkali)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Notes
AADT6-DU04A-SON02M1-22DEC	12-3-22	1300	SOIT	S	X	X	1	1	
AADT6-DU04B-SON02M1-22DEC	12-3-22	1300	Comp	S	X	X	1	1	
AADT6-IDW-SON02M1-22DEC	12-3-22	1225			X	X	1	1	
AADT6-IDW-SOFO02M1-22DEC	12-3-22				X	X	1	1	
AADT6-IDW-SOFT02M1-22DEC	12-3-22				X	X	1	1	
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) _____ Empty Kit Relinquished by: _____ Date: _____ Relinquished by: Maria Rivera Date/Time: 12-3-22 1400 Company: AECOM Relinquished by: Brytany Tomner Date/Time: 12/6/22 1430 Company: AECOM Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s): _____ and Other Remarks: _____									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Dispose By Lab		Archive For		Months	
Method of Shipment:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Received by: Brytany Tomner		Date/Time: 12/9/22 1400		Company: AECOM					

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

Chain of Custody Record

eurofins Environment Testing
America

Client Information Client Contact: Watson Tanji Company: AECOM Address: 1001 Bishop St. Suite 1600 Honolulu Hawaii 96813 Phone: 808-954-4512 Email: Watson Tanji (watson.tanji@aecom.com) Project Name: N6274223F0104 Site: RHSF			Sampler: Mitch Barber Phone: 509-554-0878 PWSID	Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com	Carrier Tracking No(s): FedEx State of Origin: Hawaii	COC No.: ZZ1ZW1EU-02 Page: Page 1 of 1 Job #:			
Due Date Requested: TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PD #: WC #:		Analysis Requested							
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 Z - other (specify)		Other:							
Field Filtered Sample (Yes or No) Perform HSM/SS (Yes or No) 9015C_DAI_Cd - D54/2 - (2-tolubenzothioxy) - Ethanol		Total Number of containers							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather, Sewage, Oil/Waste, Air)	Field Filtered Sample (Yes or No)	Perform HSM/SS (Yes or No)	Preservation Code	Special Instructions/Note
ADIT6-DU04A-SON02MI-22DEC		12-3-22	1300	Soil	S	N	N	X	
ADIT6-DU04B-SON02MI-22DEC			1300	Comp		N	N	X	
ADIT6-IDW-SON02MI-22DEC			1225			N	N	X	
ADIT6-IDW-SOFD02MI-22DEC						N	N	X	
ADIT6-IDW-SOFT02MI-22DEC						N	N	X	
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							
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: Mitch Barber	Date/Time: 12-3-22 1400	Company: AECOM	Received by: Brittany Tominez	Date/Time: 12/3/22 1400	Company: AECOM				
Relinquished by: Brittany Tominez	Date/Time: 12/6/22 1430	Company: AECOM	Received by: Rhodes	Date/Time: 12/7/22 0945	Company: ECT				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



1/2 A3 = 1.3/1.2 / 2/2 = 1.1/1.0

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-120929-1

Login Number: 120929

List Number: 1

Creator: Presley, Kim A

List Source: Eurofins Seattle

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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-120929-1

Login Number: 120929

List Number: 2

Creator: Givens, Keshia

List Source: Eurofins Savannah

List Creation: 12/10/22 12:53 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	