# PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813

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## **JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

**ANALYTICAL REPORT** 

# **JOB NUMBER**

580-123903-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424

# **Eurofins Seattle**

#### **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**

M. Elaine Walker

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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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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-123903-1

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#### **Case Narrative**

Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123903-1

**Laboratory: Eurofins Seattle** 

Narrative

# CASE NARRATIVE Client: AECOM

Project: Red Hill - AFFF Assessment Sampling Report Number: 580-123903-1

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**

Five samples were received on 2/23/2023 11:45 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 5.9° 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-HDMW225303-WGN01LF-2302W3 (580-123903-1), AF-RHMW10-WGN01LF-2302W3 (580-123903-2), AF-RHMW16-WGN01LF-2302W3 (580-123903-3), AF-RHMW12A-WGN01LF-2302W3 (580-123903-4) and AF-RHMW12A-WGFD01LF-2302W3 (580-123903-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/28/2023 and 03/01/2023.

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

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Eurofins Seattle 3/2/2023

## **Definitions/Glossary**

Client: AECOM Job ID: 580-123903-1

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.
¤	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
POL Present Operation | Operation |

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

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2302W3 Lab Sample ID: 580-123903-1

Date Collected: 02/21/23 10:35 Matrix: Water

Date Received: 02/23/23 11:45

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			02/28/23 20:32	1			

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2302W3 Lab Sample ID: 580-123903-2

Date Collected: 02/21/23 12:45

Matrix: Water

Date Received: 02/23/23 11:45

Analyte	Result	Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	IIM	5.0	1.1 mg/l			02/28/23 21:42	

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2302W3 Lab Sample ID: 580-123903-3

Date Collected: 02/21/23 14:55 Matrix: Water

Date Received: 02/23/23 11:45

Analyte	Result Qualifie	r LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			02/28/23 22:06	1

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2302W3 Lab Sample ID: 580-123903-4

Date Collected: 02/21/23 10:58

Matrix: Water

Date Received: 02/23/23 11:45

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

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1 1 mg/l			03/01/23 00:03	1

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W3 Lab Sample ID: 580-123903-5

Date Collected: 02/21/23 10:58 Matrix: Water

Date Received: 02/23/23 11:45

Analyte	Result Q	ualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 U	M	5.0	11	ma/l			03/01/23 00:26	1	

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Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-765364/10 Client Sample ID: Method Blank **Prep Type: Total/NA** 

**Matrix: Water** 

Analysis Batch: 765364

MB MB

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			02/28/23 16:37	1

Lab Sample ID: LCS 680-765364/6 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 765364

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 50 - 150 2-(2-Butoxyethoxy)ethanol 22.7 mg/L 114

Lab Sample ID: LCSD 680-765364/7 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 765364** 

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

Lab Sample ID: 580-123903-1 MS Client Sample ID: AF-HDMW225303-WGN01LF-2302W3 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 765364

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 25.0 mg/L 125 50 - 150

Lab Sample ID: 580-123903-1 MSD Client Sample ID: AF-HDMW225303-WGN01LF-2302W3 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 765364

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 23.2 116 50 - 150 50 mg/L

3/2/2023

Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2302W3

Lab Sample ID: 580-123903-1 Date Collected: 02/21/23 10:35

**Matrix: Water** 

Date Received: 02/23/23 11:45

Client: AECOM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	765364	GEM	EET SAV	02/28/23 20:32

Client Sample ID: AF-RHMW10-WGN01LF-2302W3

Lab Sample ID: 580-123903-2 **Matrix: Water** 

Date Collected: 02/21/23 12:45 Date Received: 02/23/23 11:45

Batch Batch Dilution Batch **Prepared** 

**Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 765364 GEM EET SAV 02/28/23 21:42

Client Sample ID: AF-RHMW16-WGN01LF-2302W3 Lab Sample ID: 580-123903-3

Date Collected: 02/21/23 14:55 **Matrix: Water** 

Date Received: 02/23/23 11:45

Batch Batch Dilution Batch **Prepared** Method **Number Analyst** or Analyzed **Prep Type Factor** Type Run Lab 02/28/23 22:06 EET SAV Total/NA Analysis 8015C GLY 765364 GEM

Client Sample ID: AF-RHMW12A-WGN01LF-2302W3 Lab Sample ID: 580-123903-4

Date Collected: 02/21/23 10:58 **Matrix: Water** 

Date Received: 02/23/23 11:45

Batch **Batch** Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Total/NA Analysis 8015C GLY 765364 GEM EET SAV 03/01/23 00:03

Client Sample ID: AF-RHMW12A-WGFD01LF-2302W3 Lab Sample ID: 580-123903-5

Date Collected: 02/21/23 10:58 **Matrix: Water** 

Date Received: 02/23/23 11:45

Batch Batch Dilution Batch Prepared Method Run Factor Number Analyst or Analyzed **Prep Type** Type Lab 03/01/23 00:26 Total/NA Analysis 8015C GLY 765364 GEM **EET SAV** 

**Laboratory References:** 

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

3/2/2023

## **Accreditation/Certification Summary**

Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

## **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 analyte the agency does not		port, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol	

**Eurofins Seattle** 

3/2/2023

# **Sample Summary**

Client: AECOM Job ID: 580-123903-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123903-1	AF-HDMW225303-WGN01LF-2302W3	Water	02/21/23 10:35	02/23/23 11:45
580-123903-2	AF-RHMW10-WGN01LF-2302W3	Water	02/21/23 12:45	02/23/23 11:45
580-123903-3	AF-RHMW16-WGN01LF-2302W3	Water	02/21/23 14:55	02/23/23 11:45
580-123903-4	AF-RHMW12A-WGN01LF-2302W3	Water	02/21/23 10:58	02/23/23 11:45
580-123903-5	AF-RHMW12A-WGFD01LF-2302W3	Water	02/21/23 10:58	02/23/23 11:45

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N - None
O - AsNaO2
P - Na2O45
Q - Na2SO3
R - Na2SC303
R - Na2SC303
R - VESC4
U - Acetone
U - Acetone
W - pH 4-5
Z - other (specify) Special Instructions/Note: Ver: 01/16/2019 Company AECOM Company Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) United AND reservation Codes COC No: 2302W3AFEA04 A - HCL B - NaOH C - Zn Acetate D - Nitro Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid 1515 Page: Page 1 of 1 2 I - Ice J - DI Water K - EDTA L - EDA Archive For Date/Time: Total Mumber of containers ×Ге 5 5 Unkhown Radiological Continuous Return To Client Disposal By Lab Continuous Special Instructions/QC Requirements: DOD QSM project. Carrier Tracking No(s):
FedEx
State of Origin:
Hawaii JAMESHASON Analysis Requested Cooler Temperathe(s) °C and Other Remarks: Lab PM: Elaine Walker E-Mail: M.Elaine Walker@EurofinsET.com Received by: Received by 8012C\_DALGL\_D5/ 2-(2-butoxyethoxy)-ethanol × (old to self) (Yes or No) z Time: Field Filtered Sample (Yes or No) Company
AECOM
Company
Company Sample Matrix
Type (w=water, S=solid, C=comp, C=w=stolid, G=grab) | BT=TISSUE, A=Atri Preservation Code: ≥ Sample Due Date Requested: see subconfract TAT Requested (days): Rush - ASAP ശ 702-871-5712 (575) Andy towns Brz Sample 1035 Time 7 Compliance Project: PO #: 10 to Sample Date Date/Time Date/Time: 2/2(/33/ 2/12/2 Project #: 60697810 SSOW#: Poison B Vatson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Imtant elinquished by Andy Young agg & Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No.: telinquished by: James Mson .F-HDMW225303-WGN01LF-2302W3 Non-Hazard Flammable ossible Hazard Identification 308-954-4512 / 770-331-0794 1001 Bishop St. Suite 1600 Empty Kit Relinquished by: Custody Seals Intact: Client Information Project Name: CTO N6274223F0104 Sample Identification State, Zip: Hawaii 96813 dinquished by: Jonolulu Sompany: AECOM RHSF

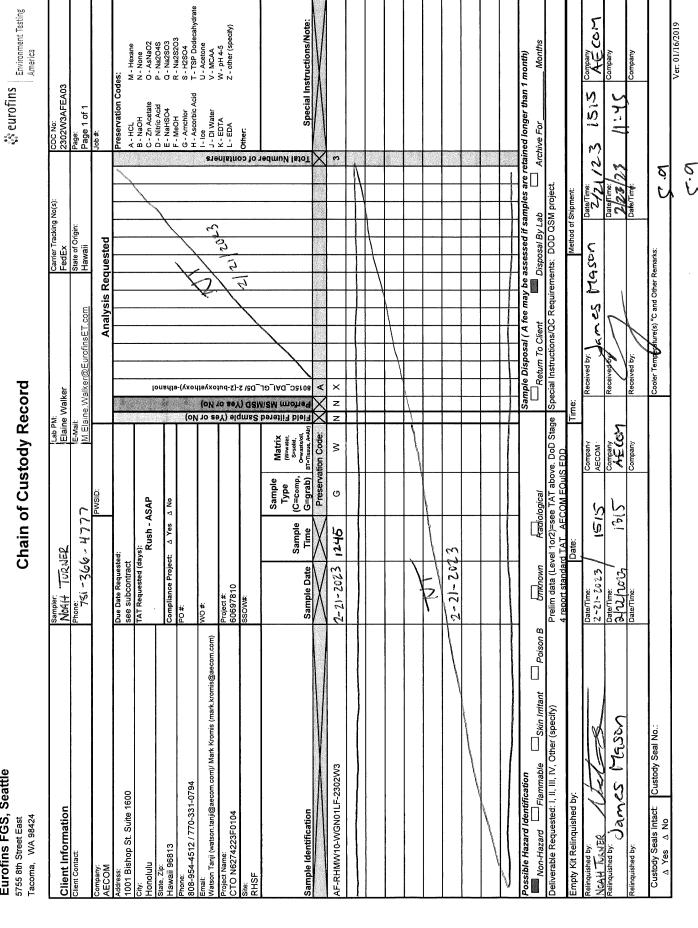
**Environment Testing** 

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Chain of Custody Record

**Eurofins FGS, Seattle** 

5755 8th Street East Tacoma, WA 98424



**Eurofins FGS, Seattle** 

5755 8th Street East

N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone W - pH 4-5 Z - other (specify) Special Instructions/Note: Ver: 01/16/2019 Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Mont reservation Codes: COC No: 2302W3AFEA06 160S A - HCL
Nach
- Nach
- Nach
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- Narch
- Nach
- Nach
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- Nach
- Lee
- Nater
- EDT
- EDA 3. Page: Page 1 of 1 Job#: Archive For Date/Lime; Date 123 Total Number of containers m Date/Time/ 2/23/22 Date/Time: から 6.0 Special Instructions/QC Requirements: DOD QSM project. Method of Shipment Carrier Tracking No(s): FedEx State of Origin: Hawaii Disposal By Lab eceived by James Mason **Analysis Requested** Cooler Temper Mire(s) °C and Other Remarks: Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com 8012C\_DAI\_GL\_DS/ 2-(2-butoxyethoxy)-ethanol z (oN to seY) GSM/SM mrohe9 Бтклоwn Radiological
Prelim data (Level 10/2)=see TAT above. DoD Stage
4 report standard TAT. AECOM FOwlS FDD Company AECOL (W=water,
S=solid,
O=wasteloil,
BT=TIssue, A=AIr) Preservation Code: Matrix Company ≥ Company AECOM (C=comp, G=grab) Sample Type Due Date 17.4-See subconfract TAT Requested (days): Rush - ASAP ഗ 1315 1605 Compliance Project: △ Yes △ No PO#: Sample Time 1455 Date: Sampler: AULT Date/Time:
2 / 22/23
Date/Time: Due Date Requested Phone: 2008(5-98-43-4 Sample Date Date/Time: & 2 - 2 ( - 2, 3 52.11.20 0121.23 Project #: 60697810 SSOW#: Poison B vatson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Imitant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No.: Hason ossible Hazard Identification AF-RHMW16-WGN01LF-2302W3 818 308-954-4512 / 770-331-0794 Jumes Address: 1001 Bishop St. Suite 1600 Empty Kit Relinquished by: Custody Seals Intact: △ Yes △ No Client Information Sample Identification Project Name: CTO N6274223F0104 linguished by: CFBPB inquished by: Hawaii 96813 linquished by: Client Contact: Honolulu Company: AECOM State, Zip: RHSF

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Chain of Custody Record

**Eurofins FGS, Seattle** 

5755 8th Street East Facoma, WA 98424

Client Information	Sampler.	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2302W3AFEA05
act.	Phone: 809-639-8434	E-Mail: M.Elaine, Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: AECOM	PWSID:	Analysis Requested	quested	,# qor
hop St. Suite 1600	Due Date Requested: see subcontract			Preservation Codes:
,	TAT Requested (days): Rush - ASAP	10		a.
State, Zip: Hawaii 96813	Compliance Project: $\Delta$ Yes $\Delta$ No	onsrite		E - Nathe Acid P - Nazo48 E - NaHSO4 Q - Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO#:			r ic Acid
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:	(on	SECTION STATES	
Project Name: CTO N6274223F0104	Project #: 60697810	o <b>s</b> a)	C C	K - EDTA W - pH 4-5 L - EDA Z - other (specify)
	SSOW#:	J ası	,	Other:
Samula Idantification	Sample Type (C=comp, Sample Date Time G=crap)	Matrix Watrix Waveter, Waveter, Waveter, Waveter, Watrix W	Total Number	Snecial Instructions/Note:
	Preserva	X	X	
AF-RHMW12A-WGN01LF-2302W3	5 350/ 82.11.20	× z z z 3	· σ	
AF-RHMW12A-WGFD01LF-2302W3	02.21.23 1058 G	× z z x	70	
	1			
02.21.23				
Possible Hazard Identification		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	assessed if samples are retain	tained longer than 1 month)
Skin imani Other (specify)	Prelim data (Level 1c 4 report standard TA	D Stage   Special Instructions/QC Requirem		
	Date:	Time:	Method of Shipment:	
GABBIE ALLEN COLUL	02.21.23 / 1605	Received by: James	MISON Date/Time: 2/21/2	3 1605
W GASC. 21.23	22/23 1315	50	Date(Fine:)	1.45 Company
Relinquished by: James Mason	Date/Time:	Company Receiv <b>£d.by</b> .	Dale/Time:	Company
Custody Seals Intact:  Custody Seal No.:		Cooler Tempe(a/ure(s) °C and Other Remarks	Remarks:	VXX
				ver: 01/10/2015

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**Chain of Custody Record** 

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

### **Login Sample Receipt Checklist**

Client: AECOM Job Number: 580-123903-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 02/28/23 12:15 PM

Creator: Meincke, Griffin E

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

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