

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 1/4/2023 1:29:26 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-121097-1

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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Job ID: 580-121097-1

Laboratory: Eurofins Seattle

Narrative

checking RPD limit for DUP and trplicate

CASE NARRATIVE

Case Narrative

Client: AECOM Project: Red Hill - AFFF Assessment Sampling Report Number: 580-121097-1

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 12/09/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.5 C.

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

GLYCOLS

Samples ADIT6-DU01-SON02MI-22DEC (580-121097-1), ADIT6-DU02-SON02MI-22DEC (580-121097-4) and ADIT6-DU03-SON02MI-22DEC (580-121097-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015C DAI. The samples were leached on 12/16/2022 and analyzed on 12/16/2022 and 12/19/2022.

Sample ADIT6-DU03-SON02MI-22DEC (580-121097-7)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-755493 and analytical batch 680-755535 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected. The associated laboratory control sample (LCS) recovery is within acceptance limits.

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

PERCENT SOLIDS

Samples ADIT6-DU01-SON02MI-22DEC (580-121097-1), ADIT6-DU02-SON02MI-22DEC (580-121097-4) and ADIT6-DU03-SON02MI-22DEC (580-121097-7) were analyzed for percent solids in accordance with ASTM D2216. The samples were analyzed on 12/16/2022.

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

Job ID: 580-121097-1 (Continued)

Laboratory: Eurofins Seattle (Continued)

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

Definitions/Glossary

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling Job ID: 580-121097-1

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Qualifiers

GC Semi VOA

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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
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

Job ID: 580-121097-1

Matrix: Solid

Lab Sample ID: 580-121097-1

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

Client Sample ID: ADIT6-DU01-SON02MI-22DEC Date Collected: 12/07/22 12:40

Date Received: 12/09/22 09:25

General Chemistry										
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (EPA Moisture)	12.9		0.01	0.01	%			12/16/22 14:29	1	
Percent Solids (EPA Moisture)	87.1		0.01	0.01	%			12/16/22 14:29	1	

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Job ID: 580-121097-1

Matrix: Solid

Lab Sample ID: 580-121097-1

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

Client Sample ID: ADIT6-DU01-SON02MI-22DEC Date Collected: 12/07/22 12:40 Date Received: 12/09/22 09:25

Date Received: 12/09/22 09:25							Percent Solid	s: 87.1
Method: SW846 8015C GLY - 0	Glycols- Dir	ect Injectior	n (GC/FID) - \$	Soluble				
Analyte	Result	Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	2.5	U	8.2	1.0 mg/Kg	\$		12/16/22 23:09	1

5

Job ID: 580-121097-1

Matrix: Solid

Lab Sample ID: 580-121097-4

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

Client Sample ID: ADIT6-DU02-SON02MI-22DEC Date Collected: 12/07/22 12:55 Date Descined: 42/02/22 09:25

Date Received: 12/09/22 09:25

General Chemistry										
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	5
Percent Moisture (EPA Moisture)	16.0		0.01	0.01	%			12/16/22 14:29	1	
Percent Solids (EPA Moisture)	84.0		0.01	0.01	%			12/16/22 14:29	1	6

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Job ID: 580-121097-1

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

Client Sample ID: ADIT6-DU02-SON02MI-22DEC Lab Sample ID: 580-121097-4 Date Collected: 12/07/22 12:55 Matrix: Solid Date Received: 12/09/22 09:25 Percent Solids: 84.0 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) - Soluble Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac ☆ 2-(2-Butoxyethoxy)ethanol 40 J1 8.3 1.0 mg/Kg 12/16/22 23:54 1

Job ID: 580-121097-1

Matrix: Solid

Lab Sample ID: 580-121097-7

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

Client Sample ID: ADIT6-DU03-SON02MI-22DEC Date Collected: 12/07/22 13:50

Date Received: 12/09/22 09:25

General Chemistry										
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
Percent Moisture (EPA Moisture)	14.2		0.01	0.01	%			12/16/22 14:29	1	
Percent Solids (EPA Moisture)	85.8		0.01	0.01	%			12/16/22 14:29	1	

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Job ID: 580-121097-1

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

Client Sample ID: ADIT6-	DU03-SON	02MI-22D	EC			La	b Sample	ID: 580-121	097-7			
Date Collected: 12/07/22 13:50						Matrix: Soli						
Date Received: 12/09/22 09:25								Percent Solid	s: 85.8			
	Glycols- Dir	ect Injectior	n (GC/FID) -	Soluble	•							
Analyte	-	Qualifier	LOQ		Unit	D	Prepared	Analyzed	Dil Fac			
2-(2-Butoxyethoxy)ethanol	250	J1	5.6	0.69	mg/Kg	☆		12/16/22 23:31	1			
	Glycols- Dir	ect Injectior	n (GC/FID) -	Soluble	ə - DL							
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac			
2-(2-Butoxyethoxy)ethanol	210	D	110	14	mg/Kg	— <u> </u>		12/19/22 14:53	20			

Eurofins Seattle

QC Sample Results

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

Job ID: 580-121097-1

5 6 7

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

Lab Sample ID: MB 680-755493/1-A Client Sample ID: Method Blank Matrix: Solid Result Qualifier LOQ DL Unit D Prepared Analyzed DI Fac 2-(2-Butoxyethoxyethanol 1.5 U 4.9 0.60 mg/kg D Prepared Analyzed DI Fac 2-(2-Butoxyethoxyethanol 1.5 U 4.9 0.60 mg/kg D Prepared Analyzed DI Fac Analysis Batch: 75535 Spike LCS LCS KRec Linits Prep Type: Soluble Analysis Batch: 75535 Spike LCS LCS LCS Method Sample Dup Analysis Batch: 75535 Spike LCSD LCSD KRec Linits Prep Type: Soluble Analysis Batch: 75535 Spike LCSD LCSD LCSD KRec RPD Analysis Batch: 755535 Sample Sample Spike MS MS MS Matrix: Solid Analysis Batch: 755535 Prep Type: Soluble Analysis Batch: 755535 Sample Sample Spike MS MS MS MS Spike MS MS MS		-										
Analysis Batch: 755535 MB MB Result Qualifier LOQ 1.5 U DL Unit D Prepared (2/2-Butoxyethoxy)ethanol Analyzed 12/16/22/20:53 DI Fac 12/16/22/20:53 Lab Sample ID: LCS 680-755493/2-A Matrix: Solid Analysis Batch: 755535 Spike Added LCS LCS Result Client Sample ID: Lab Control Sample Prep Type: Soluble Analyze Analysis Batch: 755535 Spike Added LCS LCS Result Usaiffer Unit D %Rec 800 %Rec 50.150 Lab Sample ID: LCSD 680-755493/3-A Matrix: Solid Analysis Batch: 755535 Spike Analysis Batch: 755535 LCSD Spike Analysis Batch: 755535 Client Sample ID: Lab Control Sample Dup Prep Type: Soluble Analysis Batch: 755535 Spike Analysis Batch: 755535 Client Sample ID: Lab Control Sample Dup Prep Type: Soluble Analysis Batch: 755535 Spike Analysis Batch: 755535 Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Analysis Batch: 755535 Sample Sample Spike Analysis Batch: 755535 Sample Sample Spike Analysis Batch: 755555 MS MS Analysis Batch: 755535 Analysis Batch: 755535 Sample Sample Spike Analysis Batch: 755535 Sample Sample Spike Analysis Batch: 755535 DU DU D %Rec Prep Type: Soluble Analysis Batch: 755535 Sample Sample Sample Spike Analysis Batch: 755535 Sample Sample Sample Spike Analysis Batch: 755535 DI DIO-202-SON	Lab Sample ID: MB 680-755	5493/1-A						Clie	ent San	nple ID: M	ethod	Blank
MB Result Clou D Vint D Prepared Analyzed Dil Face 2(2;Butoxyethoxy)ethanol 15 0 4.9 0.60 mg/Kg 12/16/22/20:53 1 Lab Sample ID: LCS 680-755493/2-A Kartix: Solid Client Sample ID: Lab Control Sample Prep Type: Soluble Analyte Added Result Qualifier Unit D %Rec Limits 2(2:Butoxyethoxy)ethanol 9.94 7.96 mg/Kg 80 50.150 Lab Sample ID: LCSD 680-755493/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Soluble Prep Type: Soluble Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits 2(2:Butoxyethoxy)ethanol 40 J1 10.9 30.5 I B Sol Sol	Matrix: Solid									Prep Ty	ype: So	oluble
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Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolAdded 9.94LCSD 6.35LCSD mg/KgUnit mg/KgD 64%Rec 50.150RPD 23Lab Sample ID: 580-121097-4 MS Matrix: Solid Analysis Batch: 755535Sample Result QualifierClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedMS Result QualifierWS MS%Rec Prep Type: SolubleLab Sample ID: 580-121097-4 MS Analyte 2-(2-Butoxyethoxy)ethanolQualifier 40J1NS 10.9%Rec 30.5Limit mg/KgMRec 2Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analyte 2-(2-Butoxyethoxy)ethanolSpike 4ddedMSD Result Qualifier MSDClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolSample 40Spike AddedMSD Result Qualifier MSD MSDMSD mg/Kg%Rec 2Rep Limits 18Analyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier 11.1Added 36.4J1D mg/Kg%Rec 2RPD Limits 18Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample SampleSpike Added AddedMSD Result Qualifier Qualifier QualifierMD mg/Kg%Rec 2RPD Limits 50.150RPD 18Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample SampleSample Res	2-(2-Butoxyethoxy)ethanol			9.94	7.96		mg/Kg		80	50 - 150		
Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolAdded 9.94LCSD 6.35LCSD mg/KgUnit mg/KgD 64%Rec 50.150RPD 23Lab Sample ID: 580-121097-4 MS Matrix: Solid Analysis Batch: 755535Sample Result QualifierClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedMS Result QualifierWS MS%Rec Prep Type: SolubleLab Sample ID: 580-121097-4 MS Analyte 2-(2-Butoxyethoxy)ethanolQualifier 40J1NS 10.9%Rec 30.5Limit mg/KgMRec 2Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analyte 2-(2-Butoxyethoxy)ethanolSpike 4ddedMSD Result Qualifier MSDClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolSample 40Spike AddedMSD Result Qualifier MSD MSDMSD mg/Kg%Rec 2Rep Limits 18Analyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier 11.1Added 36.4J1D mg/Kg%Rec 2RPD Limits 18Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample SampleSpike Added AddedMSD Result Qualifier Qualifier QualifierMD mg/Kg%Rec 2RPD Limits 50.150RPD 18Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample SampleSample Res	Lab Sample ID: LCSD 680-7	755493/3-A				C	lient Sa	mple	ID: Lat		Sample	e Dup
Analysis Batch: 755535Spike AddedSpike AddedLCSD Result Qualifier mg/KgUnit D %Rec mg/Kg%Rec Limits EdRPD Limit Z3Limit Z32-(2-Butoxyethoxy)ethanol9.946.35Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleLab Sample ID: 580-121097-4 MS Matrix: Solid AnalyteClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyteResult QualifierQualifier AddedMS MS Result Qualifier%Rec Limits2-(2-Butoxyethoxy)ethanol40J110.930.5J1mg/Kg0%Rec -88Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analyte Statch: 75535Sample QualifierSpike AddedMSD MSDMSD MSDMSD mg/Kg0%Rec -88Limits Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 75535Sample QualifierSpike AddedMSD MSDMSD MSDMSD mg/Kg0%Rec 			-									
Analyte 2-(2-Butoxyethoxy)ethanolSpike AddedLCSD ResultLCSD QualifierUnit Unit mg/KgD%Rec 64RPD Limits 23Limit 23Lab Sample ID: 580-121097-4 MS Matrix: Solid Analysis Batch: 755535Sample SampleSpike AddedMS MSMSClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedMS MSMS%Rec MSLimits EAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedAdded AddedMS MSMS%Rec ELimits EAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedMSD MSDMSD MSD%Rec ELimits E-Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 75535Sample Sample QualifierMSD AddedMSD Result QualifierMSD MSD MSDMSD MSD mg/KgD %Rec Soluble%Rec Limits RPD LimitLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Sample Sample AddedMSD MSD Result QualifierMSD MSD MSD Result QualifierD MSD MSD MSDD MSD MSD MSDD MSD MSD MSD MSD MSDMSD MSD MSD MSD MSD MSD MSD MSD MSD MSDMSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MS												
2-(2-Butoxyethoxy)ethanol9.946.35mg/Kg6450.1502350Lab Sample ID: 580-121097-4 MS Matrix: Solid Analysis Batch: 75535Sample Result QualifierClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult QualifierQualifier AddedMS MSMS MSMS MS MS%Rec - LimitsLab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 75535Sample Result QualifierMSD AddedMSD MSD MSDClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolSample 40Spike J1MSD 11MSD mg/Kg%Rec - -Limits SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Added 11.1MSD 36.4MSD J1MSD mg/Kg%Rec - - -Limits SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Unit 11.1D 36.4MSD J1MSD mg/Kg%Rec - - -RPD Limits SolubleLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Sample Result QualifierDU 25.8RPD MolLimit mg/KgRPD - -Limit 43Analyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier 40Result 25.8Qualifier mg/KgUnit mg/KgD - - -RPD - Limit 43Lab Sample ID: 580-121097-4 TRLResult 40Qual				Spike	LCSD	LCSD				%Rec		RPD
Lab Sample ID: 580-121097-4 MS Matrix: Solid Analysis Batch: 755535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyteResultQualifierAddedResultQualifierUnitD%Rec -88Limits2-(2-Butoxyethoxy)ethanol40J110.930.5J1UnitD%Rec -88LimitsLab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 75535Sample Result QualifierSpike Added J1MSDMSD Result Qualifier%Rec Prep Type: SolubleAnalyteSample Result QualifierSpike J1MSDMSD MSD%Rec Prep Type: SolubleAnalyteResult QualifierQualifier J1Added J1InitD MSD%Rec Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanol40J111.136.4J1mg/KgD Type: Soluble%Rec SolubleRPD LimitLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Sample Sample Analysis Batch: 75535DU DUDU RPD Type: SolubleRPD Limit 25.8RPD Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Result 25.8Qualifier MUUnit mg/KgD Type: SolubleRPD Analyte Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Result 25.8Qualifier MUUnit MUD Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40 <td>Analyte</td> <td></td> <td></td> <td>Added</td> <td>Result</td> <td>Qualifier</td> <td>Unit</td> <td>D</td> <td>%Rec</td> <td>Limits</td> <td>RPD</td> <td>Limit</td>	Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1MS 10.9MS 30.5MS J1 V_{mit} mg/KgD V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} D V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} D V_{mit} V_{mit} V_{mit} V_{mit} D V_{mit} V_{mit} V_{mit} V_{mit} D V_{mit} V_{mit} V_{mit} V_{mit} D V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} V_{mit} <t< td=""><td>2-(2-Butoxyethoxy)ethanol</td><td></td><td></td><td>9.94</td><td>6.35</td><td></td><td>mg/Kg</td><td></td><td>64</td><td>50 - 150</td><td>23</td><td>50</td></t<>	2-(2-Butoxyethoxy)ethanol			9.94	6.35		mg/Kg		64	50 - 150	23	50
Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1MS 10.9MS 30.5MS J1Vite mg/KgD w %Rec -88Vite 50.150Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Sample Result QualifierSpike Added J1MSD MSD MSD J1MSD mg/KgD w %Rec -88Viec 50.150Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Sample QualifierSpike Added J1MSD 11.1MSD 36.4MSD J1MSD mg/Kg 0 w %Rec -32Prep Type: Soluble Frep Type: SolubleLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample QualifierSample J1DU 11.1Viec mg/Kg 0 w %Rec w 30.6RPD Limit H8Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample SampleDU Qualifier J1DU ResultRPD Limit 25.8RPD mg/KgRPD w 30.6RPD Limit mg/KgLab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DEC mg/KgRPD w 30.6RPD kint mg/KgRPD w 30.6RPD kint mg/KgLab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DECRPD kint mg/KgRPD w 30.6RPD kint mg/KgRPD w 30.6Lab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DECRPD kint mg/KgRPD w 30.6RPD kint <b< td=""><td>Lah Sample ID: 580-121097</td><td>.4 MS</td><td></td><td></td><td></td><td>Client</td><td>Sample</td><td>ע ∙חו</td><td></td><td>102-SON</td><td>02MI-2</td><td>2DEC</td></b<>	Lah Sample ID: 580-121097	.4 MS				Client	Sample	ע ∙חו		102-SON	02MI-2	2DEC
Analysis Batch: 755535Sample Result 2-(2-Butoxyethoxy)ethanolSample Qualifier 40Spike Added 10.9MS MS MS 30.5MS P Unit J1D mg/Kg%Rec Limits -Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Analysis Batch: 755535Analyte 2-(2-Butoxyethoxy)ethanolSample 40Spike J1MSD MSD MSD J1MSD mg/KgD w w w w w w w rep Type: SolubleLab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Sample Result Qualifier J1MSD MSD MSD MSD MSD MSD MSD MSD MSD mg/KgMSD w w w w w w w w w w w w w solubleMSD w MSD mg/KgD w w w w w w w w w w w w w w w w w w w w hanalyte w w w w w w w w w hanalyte w w w w w w w w hanalyte w w w w w w w w hanalyte w w w w hanalyte w w w w hanalyte w w w hanalyte w w w hanalyte w w hanalyte w w hanalyte w w hanalyte w hanalyte w hanalyte w hanalyte w hanalyte w hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte hanalyte<		- 110				e liont	oumpro					
Sample AnalyteSample Result QualifierSpike AddedMS Result QualifierMS MSMS%Rec Limit mg/KgLimits 50.150Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Sample Result QualifierSpike AddedMSD MSDMSD MSDClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Added AddedMSD MSDMSD MSD%Rec Rec 												
AnalyteResultQualifierAddedResultQualifierUnitD%RecLimits2-(2-Butoxyethoxy)ethanol40J110.930.5J1mg/Kg0%RecLimitsLab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Sample ResultSample QualifierSpike AddedMSDMSDClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Added J1MSDMSD%Rec Result J1RPD 18Limit 50Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Sample Sample Analysis Batch: 755535Sample Sample Analysis Batch: 755535Sample Analysis Analysis Batch: 755535MSDMSDMSD Result Qualifier 2-(2-Butoxyethoxy)ethanolMSD 40J1DU 25.8MSD MSDMSDMSD MSDMRec MSDRPD Analysis Analysis Batch: 755535RPD 40Limit 50Lab Sample ID: 580-121097-4 TRLSample 40DU J1DU 25.8DU mg/KgDRPD 40RPD 43Limit 50Lab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DECRPD 43Limit 50	Analysis Batom record	Sample	Sample	Spike	MS	MS				%Rec		
2-(2-Butoxyethoxy)ethanol40J110.930.5J1mg/Kg \approx -8850.150Lab Sample ID: 580-121097-4 MSD Matrix: Solid Analysis Batch: 755535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble AddedPrep Type: Soluble MSDPrep Type: Soluble MSDAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Added 11.1MSDMSD $\%$ Rec mg/KgRPD \approx Limits 50.150RPD 18Limit 50Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Sample SampleDU J1DU 11.1Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Analysis Batch: 75535Matrix: Solid Analysis Batch: 75535Sample SampleDU J1DU 25.8RPD Matrix MSDRPD Matrix MSDLab Sample ID: 580-121097-4 TRLResult QualifierQualifier MSDUnit MSDD MSDRPD ADIT6-DU02-SON02MI-22DEC Ad3RPD Ad3	Analyte	•	•	•	Result	Qualifier	Unit	D	%Rec			
Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalysis Batch: 755535Sample Result 2-(2-Butoxyethoxy)ethanolSpike Added J1MSD Result J1MSD MSD MSD J1MRec mg/KgRPD MRec -32Limits Soluble RPD Limit J1RPD Limit SolubleLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Prep Type: Soluble Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1DU J1RPD Result 25.8RPD Qualifier Matrix 25.8RPD Matrix Matrix D Matrix 25.8Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Matrix Matrix Prep Type: SolubleLab Sample ID: 580-121097-4 TRLDU J1DU Z5.8Client Sample ID: ADIT6-DU02-SON02MI-22DEC Matrix 25.8Lab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DEC		40	J1	10.9	30.5	J1	mg/Kg	¢	-88	50 - 150		
Matrix: Solid Analysis Batch: 755535Prep Type: SolubleAnalysis Batch: 755535Sample Result 2-(2-Butoxyethoxy)ethanolSpike Added J1MSD Result J1MSD MSD MSD J1MRec mg/KgRPD MRec -32Limits Soluble RPD Limit J1RPD Limit SolubleLab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 75535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Prep Type: Soluble Prep Type: SolubleAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1DU J1RPD Result 25.8RPD Qualifier Matrix 25.8RPD Matrix Matrix D Matrix 25.8Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble Matrix Matrix Prep Type: SolubleLab Sample ID: 580-121097-4 TRLDU J1DU Z5.8Client Sample ID: ADIT6-DU02-SON02MI-22DEC Matrix 25.8Lab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DEC	Lab Sample ID: 580-121097					Client	Sample	יחו		102-SON	02MI-2	2DEC
Analysis Batch: 755535Sample Result 40Spike Qualifier 40MSD Added 11.1MSD Result Qualifier AddedMSD Result Qualifier Added 11.1MSD Result Qualifier Added Added 11.1MSD Result Qualifier MSD Added Added 11.1MSD Result Qualifier MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD MSD 		-4 1100				onent	Campie	. <i>.</i>				
Sample AnalyteSample QualifierSpike AddedMSD Result J1MSD QualifierMSD Persult J1MSD QualifierMSD Persult QualifierMRC Persult MSDRPD Limits TimeLimit Persult TimeAnalyte AnalyteResult 40Qualifier J1Added TimeNSD Result QualifierMSD QualifierMSD Persult QualifierMSD MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSDMSD Persult MSD MSDMSD Persult MSD MSDMSD Persult MSD MSDMSD Persult MSD MSDMSD Persult MSD MSDMSD Persult MSD MSDMSD Persult MSD MSD MSDMSD Persult MSD MSD MSD MSD MSDMit Persult Persult Persult MSDD Persult Persult Persult MSDMSD Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult Persult <br< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>i i op i j</td><td>, poi 0</td><td></td></br<>										i i op i j	, poi 0	
Analyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1Added 11.1Result 36.4Qualifier J1Unit mg/KgD %%Rec -32Limits 50-150RPD 18Limit 50Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535SampleClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleMatrix: Solid Analysis Batch: 755535SampleDU J1DU J1Prep Type: Soluble AnalysisAnalyte 2-(2-Butoxyethoxy)ethanolResult 40Qualifier J1DU J1DU Z5.8DU mg/KgDit mg/KgRPD mg/KgLab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DEC Add dot dotRPD Add dot		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Z-(2-Butoxyethoxy)ethanol40J111.136.4J1mg/Kg-3250.1501850Lab Sample ID: 580-121097-4 DU Matrix: Solid Analysis Batch: 755535Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleMatrix: Analyte 2-(2-Butoxyethoxy)ethanolSample 40DU J1DU J1RPD 25.8RPD mg/KgRPD a aRPD 43Limit 50Lab Sample ID: 580-121097-4 TRLClient Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: SolubleRPD Analyte Analyte 25.8Client Sample ID: ADIT6-DU02-SON02MI-22DEC Prep Type: Soluble	Analyte	•	•	•	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Matrix: Solid Prep Type: Soluble Analysis Batch: 755535 Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD 2-(2-Butoxyethoxy)ethanol 40 J1 25.8 Qualifier Unit D RPD Limit Lab Sample ID: 580-121097-4 TRL Client Sample ID: ADIT6-DU02-SON02MI-22DEC Client Sample ID: ADIT6-DU02-SON02MI-22DEC	2-(2-Butoxyethoxy)ethanol	40	J1	11.1	36.4	J1	mg/Kg	☆	-32	50 - 150	18	50
Matrix: Solid Prep Type: Soluble Analysis Batch: 755535 Sample DU Prep Type: Soluble Analyte Sample DU DU RPD Analyte Result Qualifier Nait D RPD 2-(2-Butoxyethoxy)ethanol 40 J1 25.8 Qualifier Unit D RPD Limit Lab Sample ID: 580-121097-4 TRL Client Sample ID: ADIT6-DU02-SON02MI-22DEC Client Sample ID: ADIT6-DU02-SON02MI-22DEC		-4 DU				Client	Sample			U02-SON	02MI-2	2DFC
Analysis Batch: 755535 Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD 2-(2-Butoxyethoxy)ethanol 40 J1 25.8 Qualifier Unit D RPD Limit Lab Sample ID: 580-121097-4 TRL Client Sample ID: ADIT6-DU02-SON02MI-22DEC							••••••					
Sample DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD 2-(2-Butoxyethoxy)ethanol 40 J1 25.8 Qualifier Unit D RPD Limit Lab Sample ID: 580-121097-4 TRL Client Sample ID: ADIT6-DU02-SON02MI-22DEC												
Analyte Result Qualifier Result Qualifier Unit D — RPD Limit 2-(2-Butoxyethoxy)ethanol 40 J1 25.8 Qualifier Unit D — — — — — — — — — — — — — — — — — — — — 43 50		Sample	Sample		DU	DU						RPD
2-(2-Butoxyethoxy)ethanol 40 J1 25.8 mg/Kg a 43 50 Lab Sample ID: 580-121097-4 TRL Client Sample ID: ADIT6-DU02-SON02MI-22DEC	Analyte	-	-		Result	Qualifier	Unit	D			RPD	Limit
		40	J1		25.8		mg/Kg				43	50
	Lah Sample ID: 580-121097	-4 TRI				Client	Sample	יחו ∆		102-SON	02MI-2	2DEC
Matrix: Solid Prep Type: Soluble	Matrix: Solid					Sherit	Sample					
Analysis Batch: 755535												
Sample Sample TRL TRL RSD		Sample	Sample		TRL	TRL						RSD
Analyte Result Qualifier Result Qualifier Unit D RSD Limit	Analyte						Unit	D			RSD	
2-(2-Butoxyethoxy)ethanol 40 J1 48.4 mg/Kg 🔅 30 50							mg/Kg				30	

QC Sample Results

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

Job ID: 580-121097-1

Method: Moisture - Percent Moisture

Lab Sample ID: 580-121 Matrix: Solid Analysis Batch: 755516				Client	Sample	BID: ADIT6-	DU02-SON02MI-22 Prep Type: Tota	
····· , ·····	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Percent Moisture	16.0		14.7		%		9	20
Percent Solids	84.0		85.3		%		2	20
Lab Sample ID: 580-121	097-4 TRL			Client	Sample	D: ADIT6	DU02-SON02MI-22	DEC
Matrix: Solid					- C.		Prep Type: Tot	
Analysis Batch: 755516								
	Sample	Sample	TRL	TRL				RSD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RSD	Limit
Percent Moisture	16.0		15.3		%		4	
Percent Solids	84.0		84.7		%		0.8	

Eurofins Seattle

			-						
Client: AECON Project/Site: Re		- Assessment Sa	ampling					Job IE): 580-121097- ⁻
Client Samp	ole ID: AD	T6-DU01-SO	N02MI-2	2DEC			Lab	Sample ID: 5	80-121097-
Date Collected									Matrix: Solie
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	Moisture		1	755516	KF	EET SAV	12/16/22 14:29	
		T6-DU01-SO	N02MI-2	2DEC			Lab	Sample ID: 5	
ate Collecteo ate Receiveo								Perce	Matrix: Soli ent Solids: 87.
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Soluble	Leach	DI Leach			755493		EET SAV	<u>12/16/22 12:26</u>	
Soluble	Analysis	8015C GLY		1	755535		EET SAV	12/16/22 23:09	
liont Samr		T6-DU02-SO					Lah	Sample ID: 5	80-121097.
ate Collecter							Lab	Sample ID. C	Matrix: Soli
Date Received									
	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	Moisture			755516	KF	EET SAV	12/16/22 14:29	
Client Samp	ole ID: AD	T6-DU02-SO	N02MI-2	2DEC			Lab	Sample ID: 5	80-121097-
Date Collected	d: 12/07/22 1	2:55							Matrix: Soli
Date Received	d: 12/09/22 0	9:25						Perce	ent Solids: 84.
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Soluble	Leach	DI Leach			755493	GEM	EET SAV	12/16/22 12:26	
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 23:54	
lient Samp	ole ID: AD	T6-DU03-SO	N02MI-2	2DEC			Lab	Sample ID: 5	80-121097-
Date Collecter									Matrix: Soli
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor		Analyst	Lab	or Analyzed	
Total/NA	Analysis	Moisture		1	755516		EET SAV	12/16/22 14:29	
lient Sam		T6-DU03-SO	N02MI-2	2DFC			Lab	Sample ID: 5	80-121097-
ate Collecter							Eab		Matrix: Soli
Date Received								Perce	ent Solids: 85.
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Soluble	Leach	DI Leach			755493		EET SAV	12/16/22 12:26	
Soluble	Analysis	8015C GLY		1	755535	JCK	EET SAV	12/16/22 23:31	
Soluble	Leach	DI Leach	DL		755493	GEM	EET SAV	12/16/22 12:26	
					700-00			12/10/22 12.20	

Lab Chronicle

Laboratory References:

Analysis

Soluble

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

DL

8015C GLY

1/4/2023

20

755899 JCK

EET SAV

12/19/22 14:53

Job ID: 580-121097-1

Accreditation/Certification Summary

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

8 9 10

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 the agency does not o		report, but the laboratory is no	ot certified by the governing authority.	This list may include analytes for which		
Analysis Method	Prep Method	Matrix	Analyte			
Analysis Method 8015C GLY	Prep Method	Matrix Solid	Analyte 2-(2-Butoxyethoxy)ethanol			
,	Prep Method		,			

Eurofins Seattle

Sample Summary

Collected

12/07/22 12:40 12/09/22 09:25

12/07/22 12:55 12/09/22 09:25

12/07/22 13:50 12/09/22 09:25

Received

Matrix

Solid

Solid

Solid

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

ADIT6-DU01-SON02MI-22DEC

ADIT6-DU02-SON02MI-22DEC

ADIT6-DU03-SON02MI-22DEC

Client Sample ID

Lab Sample ID

580-121097-1

580-121097-4

580-121097-7

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Eurofins FGS, Seattle

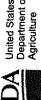
5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Securofins Environment Testing America

Client Information	Sampler Phone 80	orge	Sauce	~	Lab Pi Elaine	ł Walk	er					Carri Fed		king No	(s)		COC No: 2212W1EU	-05	
Ctrent Contact: Watson Tanji	Phone Q	8 95	445	12	E-Mail: M.Eta	ine.Wa	alkoríň) Euro	fincET	- eem			ol Orig	jin:			Page.		-1
Company. AECOM	<u> </u>	<u> </u>	PWSID			4 10. 112	anere	e cuio				Haw					Page 1 of 1		
Address	Due Date Requ	ested				10000			<u>A</u>	nalys	is Re	ques	ted		,				
1001 Bishop St. Suite 1600	see subcontr	act															Preservation	Codes:	
City: Honolulu State, Zip.	TAT Requested	(days): Rush -	ASAP		٦												A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2	+
Hawaii 96813	Compliance Pro	oject: \ Yes	\ No				2								1		D - Nitric Acid E - NaHSQ4	P - Na2O4S Q - Na2SO3	
Phone 808-954-4512	PO #				-)-ehtar	1						1			F - MeOH G - Amchior	R - Na2S2O3 S - H2SO4	
Email. Watson Tanji (watson tanji @aecom.com)	NO #						ethowy		N	r		$\begin{bmatrix} 1 \end{bmatrix}$					H - Ascorbic A I - Ice J - DI Water	bid T - TSP Dodecahydrat U - Acetone V - MCAA	le
Project Name N6274223F0104	Project # 60697810				-	20	butoxy						1	\neg		iners	K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)	
Site RHSF	SSOW#				- united	SD (Ves or No)	D5/ 2-(3			1		╢	//	n		f cont	Other:		
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)		Link Fi	Perform MS/M	8015C_DAI_GL_D5/2-(2butexyethowy)-ehtano			/	<u>и</u> .	ļΥ				Total Number of		Instructions/Note:	
ADIT6-DU01-SON02MI-22DEC	12/1/20		Preserval G	s S	N N		x				-		-	-		- <u>X</u>			
ADIT6-DU02-SON02MI-22DEC	12/1/w	1255	G	Ş			x	-	+						╞╼╌┠╴				
ADIT6-DU03-SON02MI-22DEC	12/1/22	1350	G	s	N	N	×				-					1	<u> </u>		
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Possible Hazard Identification	·	<u> </u>				Samp	ie Dis	sposa	I (A fi	ee maj	y be a:	sess	ed if s	ampl	es are	retain	ed longer tha	n 1 month)	-
Non-Hazard Flammable Skin Irritant Poiso eliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Le	vel 1or2)=see	e TAT above	DoD Sta		<u> </u>	Retur	n To l	Client	Requi	E C	isposa	ai By t	ab			nive For	Months	
	report standa	Date:	COM EQUIS	EDD.															
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Lustody Seals Intact: Custody Seal No.:		<u> </u>	<u> </u> NG 950		÷.,	Coc	vier Jeg	peratu	ne(s) °C	and Ot	her fler	arks;	1	<u> </u> :>:;;;		Ye ta			-
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Animal and Plant Health Inspection Service United States Department of Agriculture Plant Protection & Quarantine Riverdale, MD 20737 4700 River Road

Permit to Receive Soil Regulated by 7 CFR 330

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e ePermits system.	PERMIT NUMBER: P330-22-00078	P525-220525-003	D: 07/14/2022		-		I estAmerica Lab(s), Inc.				Northwest	5/55 8th Street East	Tacoma, Washington 98424	CS: 5755 8th Street Boot	-	Justin Mckell		253-248-4969	
This permit was generated electronically via the ePermits system.	Justin Mckell	Eurofins Environment Testing Northwest NUMBER:	5755 8th St E DATE ISSUED: Fife, WA 98424 EVENDES		FIIE, WA 98424 (253) 248-4969		justin.mckell@et.eurofinsus.com ACCOUNT:	RESEARCH	CENTER:	FACILITY NAME:	EA CHI ITEU		ADUKESS: EACH HTW CF	MAIL ADDRESS:		FACILITY	CONTACT:	PHONE:	ALT. PHONE:
	PERMITTEE NAME:	COMPANY:	AUUKESS:	MAILING ADDEEC.	PHONE:	ALT. PHONE:	EMAIL: Fax:												

Lukeville; AZ, Naco; AZ, Nogales; AZ, Phoemix; AZ, San Luis; AZ, Tucson; CA, Calexico; CA, El Segundo; CA, Fresno; CA, Lukeville; AZ, Naco; AZ, Nogales; AZ, Phoemix; AZ, San Luis; AZ, Tucson; CA, Calexico; CA, El Segundo; CA, Fresno; CA, Lung Beach; CA, Oakland; CA, Ontario; CA, Otay Mesa; CA, Pont Huenem; CA, Sacramento; CA, San Diego; CA, San Jose; CA, San Sidro; CA, South San Francisco; CA, Tecter; CO, Denver; CT, Hartford; CT, New Haven; DE, Dover; DE, Wilmington; FL, Ft. Lauderdale; FL, Ft. Myers; FL, Ft. Pierce; FL, Jacksonville; FL, Key West; FL, Miami, FL, Miami (Cargo, Wilmington; FL, Ft. Lauderdale; FL, Ft. Myers; FL, Ft. Pierce; FL, Jacksonville; FL, Key West; FL, Miami, FL, Miami (Cargo, West Palm Beach; GA, Atlanta; GA, Savanah; GU, Agana; HI, Hilo; HI, Honolulu; HI, Kahului; HI, Kailua-Kona; HI, Lihue; West Palm Beach; GA, Atlanta; GA, Savanah; GU, Agana; HI, Hilo; HI, Honolulu; HI, Kahului; HI, Kailua-Kona; HI, Lihue; Calais; ME, Houlton; ME, Portland; MI, Portol; MA, South Boston; MD, Baltimore; MD, Laureti, MF, Bangor; ME, Portage; MN, International Falls; MN, Minneapolis; NV, Louisville; MT, Rosoville; MT, Sweetgrass; NC, Raleigh; NC, Calais; MS, Gulfport; MS, Portland; MI, Portlat; MJ, Romulus; MI, South Boston; MD, Sault Saint Marie; MN, Duluth; MN, Grand Mariana Islands, MS, Gulfport; MS, Portali; NJ, Linden; NM, Albuquerque; NM, Columbus; NN, Santa Teresa; NV, Rouses Point; OH, Ashtabula; OH, Cleveland; OH, Columbus; OH, Toledo; OH, Wilmington; ND, Dunseith; ND, Pembina; ND, Portal; NJ, Linden; NM, Albuquerque; NM, Santa Teresa; NY, Rouses Point; OH, Ashtabula; OH, Cleveland; OH, Columbus; OH, Toledo; OH, Wilmington; OK, Oklahoma PORTS OF ARRIVAL/PLANT INSPECTION STATIONS: AK, Anchorage; AL, Huntsville; AL, Mobile; AZ, Douglas; AZ, justin.mckell@et.eurofinsus.com City; OR, Portland; PA, Allentown; PA, Harrisburg; PA, Philadelphia; PA, Pittsburgh; PA, Scranton; PR, Aguadilla; PR,

EMAIL: FAX:

Permit Number P330-22-0007 DATE THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS. L L

07/14/2022 Gibbs Smith

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than \$ years, or both {18 U.S.C.s 1001}

Page 1 of 9

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Login Sample Receipt Checklist

Client: AECOM

Login Number: 121097 List Number: 1 Creator: Groves, Elizabeth

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

Job Number: 580-121097-1

List Source: Eurofins Seattle

Login Sample Receipt Checklist

Client: AECOM

Login Number: 121097 List Number: 2 Creator: Givens, Keshia

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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.	N/A	Some samples did not have any labels.
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	

List Source: Eurofins Savannah

List Creation: 12/14/22 12:25 PM

Login Sample Receipt Checklist

Client: AECOM

Login Number: 121097 List Number: 3 Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

List Source: Eurofins Savannah

List Creation: 12/16/22 09:52 AM