

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 1633

JOB NUMBER

380-210037-1

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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and 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 Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Case Narrative

Client: City & County of Honolulu
Project: INTERA - Red-Hill-Incident

Job ID: 380-210037-1

Job ID: 380-210037-1

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Job Narrative 380-210037-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 4/23/2026 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

PFAS

Method QSM B-24: If aqueous samples were extracted beyond 7 days from collection, NMeFOSE, NEtFOSE, NMeFOSAA, and NEtFOSAA may be affected. If soil or tissue samples were extracted beyond 3 days from collection, NFDHA may be affected. If sample extracts, regardless of matrix, were analyzed beyond 28 days from extraction, 9Cl-PF3ONS and 11Cl-PF3OUdS may be affected. Per DoD Environmental Data Quality Workgroup Memorandum dated March 27, 2025, none of these analytes have associated regulatory limits or toxicity factors, thus any additional uncertainty associated with a holding time exceedance for these analytes will not affect current decision making and the DoD is willing to accept any additional uncertainty.

Method QSM B-24: Isotope Dilution Analyte (IDA) recoveries are outside the method recommended limit in one or more samples, as indicated in the Isotope Dilution Summary. Generally, data quality is not considered to be affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDAs in the sample(s).

Method QSM B-24: The laboratory control sample duplicate (LCSD) for preparation batch 320-913800 recovered outside control limits for the following analyte: NFDHA. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method QSM B-24: One or more continuing calibration verifications (CCV) and/or continuing calibration blanks (CCB) in analytical batch 320-913968 recovered above control limits for one or more IDAs. The associated target analyte(s) were within control in the CCVs, CCBs, and laboratory QC samples (MB, LLCs/LCS/LCSD), and associated field samples were non-detect (ND) for these target analytes; therefore the data for these samples have been reported.

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

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Detection Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ Lab Sample ID: 380-210037-1

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-210037-1

Date Collected: 04/22/26 11:30

Matrix: Water

Date Received: 04/23/26 09:20

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoropentanoic acid (PFPeA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorohexanoic acid (PFHxA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoroheptanoic acid (PFHpA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorooctanoic acid (PFOA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorononanoic acid (PFNA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorodecanoic acid (PFDA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoroundecanoic acid (PFUnA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorododecanoic acid (PFDoA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorotridecanoic acid (PFTTrDA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorotetradecanoic acid (PFTeDA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorobutanesulfonic acid (PFBS)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorooctanesulfonic acid (PFOS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorononanesulfonic acid (PFNS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorodecanesulfonic acid (PFDS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorododecanesulfonic acid (PFDoS)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluorooctanesulfonamide (PFOSA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.3		7.3	ng/L		04/27/26 12:05	04/28/26 13:30	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<7.3		7.3	ng/L		04/27/26 12:05	04/28/26 13:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.1	ng/L		04/27/26 12:05	04/28/26 13:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.5	+	1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 13:30	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-210037-1

Date Collected: 04/22/26 11:30

Matrix: Water

Date Received: 04/23/26 09:20

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<2.9		2.9	ng/L		04/27/26 12:05	04/28/26 13:30	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.3		7.3	ng/L		04/27/26 12:05	04/28/26 13:30	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.3		7.3	ng/L		04/27/26 12:05	04/28/26 13:30	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	81.3		5 - 130			04/27/26 12:05	04/28/26 13:30	1
13C5 PFPeA	132	*5+	40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C5 PFHxA	92.7		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C4 PFHpA	83.0		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C8 PFOA	94.3		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C9 PFNA	95.3		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C6 PFDA	89.3		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C7 PFUnA	85.2		30 - 130			04/27/26 12:05	04/28/26 13:30	1
13C2 PFDoA	92.8		10 - 130			04/27/26 12:05	04/28/26 13:30	1
13C2 PFTeDA	91.4		10 - 130			04/27/26 12:05	04/28/26 13:30	1
13C6 PFTTrDA	97.9		20 - 150			04/27/26 12:05	04/28/26 13:30	1
13C3 PFBS	95.5		40 - 135			04/27/26 12:05	04/28/26 13:30	1
13C3 PFHxS	94.9		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C8 PFOS	98.9		40 - 130			04/27/26 12:05	04/28/26 13:30	1
13C8 PFOSA	82.2		40 - 130			04/27/26 12:05	04/28/26 13:30	1
d3-NMeFOSAA	91.4		40 - 170			04/27/26 12:05	04/28/26 13:30	1
d5-NEtFOSAA	90.5		25 - 135			04/27/26 12:05	04/28/26 13:30	1
13C2 4:2 FTS	79.0		40 - 200			04/27/26 12:05	04/28/26 13:30	1
13C2 6:2 FTS	81.4		40 - 200			04/27/26 12:05	04/28/26 13:30	1
13C2 8:2 FTS	68.6		40 - 300			04/27/26 12:05	04/28/26 13:30	1
13C3 HFPO-DA	82.9		40 - 130			04/27/26 12:05	04/28/26 13:30	1
d7-N-MeFOSE-M	97.1		10 - 130			04/27/26 12:05	04/28/26 13:30	1
d9-N-EtFOSE-M	102		10 - 130			04/27/26 12:05	04/28/26 13:30	1
d5-NEtPFOSA	73.1		10 - 130			04/27/26 12:05	04/28/26 13:30	1
d3-NMePFOSA	72.2		10 - 130			04/27/26 12:05	04/28/26 13:30	1
13C3-3:3 FTCA	98.0		20 - 150			04/27/26 12:05	04/28/26 13:30	1
13C3-5:3 FTCA	80.0		20 - 150			04/27/26 12:05	04/28/26 13:30	1

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24 - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<1.5		1.5	ng/L		04/27/26 12:05	04/29/26 09:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.5		1.5	ng/L		04/27/26 12:05	04/29/26 09:38	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C5 PFPeA	94.2		40 - 130			04/27/26 12:05	04/29/26 09:38	1
13C3 PFHxS	82.8		40 - 130			04/27/26 12:05	04/29/26 09:38	1

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Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-210037-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Perfluorooctanoic acid (PFOA)	<1.5		ng/L	4	1.5	QSM B-24	Total/NA
Perfluorononanoic acid (PFNA)	<1.5		ng/L	10	1.5	QSM B-24	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<1.5		ng/L	4	1.5	QSM B-24	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		ng/L	10	1.1	QSM B-24	Total/NA

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
380-210037-1	BWS2253-H1-AQ	81.3	132 *5+	92.7	83.0	94.3	95.3	89.3	85.2
380-210037-1 - RA	BWS2253-H1-AQ		94.2						
LCS 320-913800/3-A	Lab Control Sample	77.3	116	89.7	83.7	98.6	98.6	82.7	78.2
LCS 320-913800/3-A - RA	Lab Control Sample								
LCSD 320-913800/4-A	Lab Control Sample Dup	79.3	139 *5+	78.8	83.9	91.4	103	90.3	86.9
LCSD 320-913800/4-A - RA	Lab Control Sample Dup								
LLCS 320-913800/2-A	Lab Control Sample	78.3	113	92.0	86.2	99.3	103	86.2	76.9
LLCS 320-913800/2-A - RA	Lab Control Sample								
MB 320-913800/1-A	Method Blank	80.0	117	88.4	76.3	93.9	100	97.7	85.2
MB 320-913800/1-A - RA	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	36PFTDA (20-150)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)
380-210037-1	BWS2253-H1-AQ	92.8	91.4	97.9	95.5	94.9	98.9	82.2	91.4
380-210037-1 - RA	BWS2253-H1-AQ					82.8			
LCS 320-913800/3-A	Lab Control Sample	76.9	67.1	69.2	85.2	97.4	104	79.9	111
LCS 320-913800/3-A - RA	Lab Control Sample					81.0			
LCSD 320-913800/4-A	Lab Control Sample Dup	85.9	88.8	92.8	92.7	98.1	110	89.6	110
LCSD 320-913800/4-A - RA	Lab Control Sample Dup					83.4			
LLCS 320-913800/2-A	Lab Control Sample	76.0	69.9	69.2	88.3	89.8	103	73.0	87.7
LLCS 320-913800/2-A - RA	Lab Control Sample					83.6			
MB 320-913800/1-A	Method Blank	88.0	96.0	90.0	97.7	96.9	98.6	76.8	98.8
MB 320-913800/1-A - RA	Method Blank					88.4			

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-135)	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)
380-210037-1	BWS2253-H1-AQ	90.5	79.0	81.4	68.6	82.9	97.1	102	73.1
380-210037-1 - RA	BWS2253-H1-AQ								
LCS 320-913800/3-A	Lab Control Sample	109	86.5	82.1	68.4	80.0	94.5	98.6	73.6
LCS 320-913800/3-A - RA	Lab Control Sample								
LCSD 320-913800/4-A	Lab Control Sample Dup	113	76.6	98.5	74.0	83.7	107	107	76.6
LCSD 320-913800/4-A - RA	Lab Control Sample Dup								
LLCS 320-913800/2-A	Lab Control Sample	84.3	70.5	82.9	77.2	76.2	79.4	84.3	67.1
LLCS 320-913800/2-A - RA	Lab Control Sample								
MB 320-913800/1-A	Method Blank	95.0	89.8	88.4	81.6	79.6	89.1	95.0	68.2
MB 320-913800/1-A - RA	Method Blank								

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d3NMFSA (10-130)	3-3:3 FTC (20-150)	3-5:3 FTC (20-150)
380-210037-1	BWS2253-H1-AQ	72.2	98.0	80.0
380-210037-1 - RA	BWS2253-H1-AQ			
LCS 320-913800/3-A	Lab Control Sample	66.5	98.0	79.1
LCS 320-913800/3-A - RA	Lab Control Sample			
LCSD 320-913800/4-A	Lab Control Sample Dup	68.1	99.3	82.6
LCSD 320-913800/4-A - RA	Lab Control Sample Dup			
LLCS 320-913800/2-A	Lab Control Sample	58.2	92.5	79.3
LLCS 320-913800/2-A - RA	Lab Control Sample			
MB 320-913800/1-A	Method Blank	61.2	90.3	78.1
MB 320-913800/1-A - RA	Method Blank			

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Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C6PFTrDA = 13C6 PFTrDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
C3-3:3 FTCA = 13C3-3:3 FTCA
C3-5:3 FTCA = 13C3-5:3 FTCA

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Lab Sample ID: MB 320-913800/1-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 913800

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorobutanesulfonic acid (PFBS)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		04/27/26 12:05	04/28/26 10:46	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<10		10	ng/L		04/27/26 12:05	04/28/26 10:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		04/27/26 12:05	04/28/26 10:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: MB 320-913800/1-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 913800

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		04/27/26 12:05	04/28/26 10:46	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		04/27/26 12:05	04/28/26 10:46	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		04/27/26 12:05	04/28/26 10:46	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	80.0		5 - 130			04/27/26 12:05	04/28/26 10:46	1
13C5 PFPeA	117		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C5 PFHxA	88.4		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C4 PFHpA	76.3		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C8 PFOA	93.9		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C9 PFNA	100		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C6 PFDA	97.7		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C7 PFUnA	85.2		30 - 130			04/27/26 12:05	04/28/26 10:46	1
13C2 PFDoA	88.0		10 - 130			04/27/26 12:05	04/28/26 10:46	1
13C2 PFTeDA	96.0		10 - 130			04/27/26 12:05	04/28/26 10:46	1
13C6 PFTriDA	90.0		20 - 150			04/27/26 12:05	04/28/26 10:46	1
13C3 PFBS	97.7		40 - 135			04/27/26 12:05	04/28/26 10:46	1
13C3 PFHxS	96.9		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C8 PFOS	98.6		40 - 130			04/27/26 12:05	04/28/26 10:46	1
13C8 PFOSA	76.8		40 - 130			04/27/26 12:05	04/28/26 10:46	1
d3-NMeFOSAA	98.8		40 - 170			04/27/26 12:05	04/28/26 10:46	1
d5-NEtFOSAA	95.0		25 - 135			04/27/26 12:05	04/28/26 10:46	1
13C2 4:2 FTS	89.8		40 - 200			04/27/26 12:05	04/28/26 10:46	1
13C2 6:2 FTS	88.4		40 - 200			04/27/26 12:05	04/28/26 10:46	1
13C2 8:2 FTS	81.6		40 - 300			04/27/26 12:05	04/28/26 10:46	1
13C3 HFPO-DA	79.6		40 - 130			04/27/26 12:05	04/28/26 10:46	1
d7-N-MeFOSE-M	89.1		10 - 130			04/27/26 12:05	04/28/26 10:46	1
d9-N-EtFOSE-M	95.0		10 - 130			04/27/26 12:05	04/28/26 10:46	1
d5-NEtPFOSA	68.2		10 - 130			04/27/26 12:05	04/28/26 10:46	1
d3-NMePFOSA	61.2		10 - 130			04/27/26 12:05	04/28/26 10:46	1
13C3-3:3 FTCA	90.3		20 - 150			04/27/26 12:05	04/28/26 10:46	1
13C3-5:3 FTCA	78.1		20 - 150			04/27/26 12:05	04/28/26 10:46	1

Lab Sample ID: LCS 320-913800/3-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	79.3		ng/L		99	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	29.2		ng/L		73	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.0		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	36.4		ng/L		91	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	38.1		ng/L		95	70 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-913800/3-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	40.0	34.9		ng/L		87	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	37.3		ng/L		93	70 - 140
Perfluoroundecanoic acid (PFUnA)	40.0	39.0		ng/L		97	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	38.5		ng/L		96	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	40.7		ng/L		102	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	40.6		ng/L		101	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	29.1		ng/L		82	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	32.9		ng/L		88	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.1		ng/L		97	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	33.3		ng/L		90	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	30.4		ng/L		79	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	32.1		ng/L		83	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	29.4		ng/L		76	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	73.8		ng/L		98	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	84.8		ng/L		111	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	95.9		ng/L		125	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	41.1		ng/L		103	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	37.6		ng/L		94	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	37.1		ng/L		93	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.6		ng/L		87	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.3		ng/L		93	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	190		ng/L		95	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	170		ng/L		85	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	32.6		ng/L		109	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.1		ng/L		93	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	30.7		ng/L		77	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	45.5		ng/L		114	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	33.1		ng/L		83	55 - 140

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-913800/3-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	37.4	33.6		ng/L		90	70 - 155
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	37.8	32.1		ng/L		85	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	35.7	29.5		ng/L		83	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	75.2		ng/L		94	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	197		ng/L		98	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	190		ng/L		95	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	77.3		5 - 130
13C5 PFPeA	116		40 - 130
13C5 PFHxA	89.7		40 - 130
13C4 PFHpA	83.7		40 - 130
13C8 PFOA	98.6		40 - 130
13C9 PFNA	98.6		40 - 130
13C6 PFDA	82.7		40 - 130
13C7 PFUnA	78.2		30 - 130
13C2 PFDoA	76.9		10 - 130
13C2 PFTeDA	67.1		10 - 130
13C6 PFTrDA	69.2		20 - 150
13C3 PFBS	85.2		40 - 135
13C3 PFHxS	97.4		40 - 130
13C8 PFOS	104		40 - 130
13C8 PFOSA	79.9		40 - 130
d3-NMeFOSAA	111		40 - 170
d5-NEtFOSAA	109		25 - 135
13C2 4:2 FTS	86.5		40 - 200
13C2 6:2 FTS	82.1		40 - 200
13C2 8:2 FTS	68.4		40 - 300
13C3 HFPO-DA	80.0		40 - 130
d7-N-MeFOSE-M	94.5		10 - 130
d9-N-EtFOSE-M	98.6		10 - 130
d5-NEtPFOSA	73.6		10 - 130
d3-NMePFOSA	66.5		10 - 130
13C3-3:3 FTCA	98.0		20 - 150
13C3-5:3 FTCA	79.1		20 - 150

Lab Sample ID: LCSD 320-913800/4-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	78.6		ng/L		98	70 - 140	1	30
Perfluoropentanoic acid (PFPeA)	40.0	29.9		ng/L		75	65 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	50.3		ng/L		126	70 - 145	25	30

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-913800/4-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid (PFHpA)	40.0	45.2		ng/L		113	70 - 150	22	30
Perfluorooctanoic acid (PFOA)	40.0	37.8		ng/L		95	70 - 150	1	30
Perfluorononanoic acid (PFNA)	40.0	37.9		ng/L		95	70 - 150	8	30
Perfluorodecanoic acid (PFDA)	40.0	38.7		ng/L		97	70 - 140	4	30
Perfluoroundecanoic acid (PFUnA)	40.0	38.4		ng/L		96	70 - 145	1	30
Perfluorododecanoic acid (PFDoA)	40.0	43.9		ng/L		110	70 - 140	13	30
Perfluorotridecanoic acid (PFTrDA)	40.0	37.4		ng/L		93	65 - 140	8	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	42.1		ng/L		105	60 - 140	4	30
Perfluorobutanesulfonic acid (PFBS)	35.5	29.3		ng/L		82	60 - 145	0	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	35.5		ng/L		94	65 - 140	7	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	35.2		ng/L		92	70 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	37.2	32.6		ng/L		88	55 - 150	2	30
Perfluorononanesulfonic acid (PFNS)	38.5	29.3		ng/L		76	65 - 145	4	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.4		ng/L		92	60 - 145	10	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	38.1		ng/L		98	50 - 145	26	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	86.6		ng/L		115	70 - 145	16	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	76.0		ng/L		100	65 - 155	11	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	91.4		ng/L		119	60 - 150	5	30
Perfluorooctanesulfonamide (PFOSA)	40.0	41.8		ng/L		105	70 - 145	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	36.4		ng/L		91	60 - 150	3	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	36.1		ng/L		90	65 - 145	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	34.0		ng/L		85	50 - 140	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	35.7		ng/L		89	70 - 145	4	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	185		ng/L		92	70 - 145	3	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	180		ng/L		90	70 - 135	6	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	32.0		ng/L		107	70 - 140	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	36.4		ng/L		96	65 - 145	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	24.0		ng/L		60	60 - 150	24	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	60.6	*+	ng/L		151	50 - 150	28	30

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-913800/4-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	29.4		ng/L		73	55 - 140	12	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	30.7		ng/L		82	70 - 155	9	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	35.4		ng/L		94	55 - 160	10	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	35.7	37.0		ng/L		104	70 - 140	23	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	81.5		ng/L		102	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	205		ng/L		102	70 - 135	4	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	243		ng/L		121	50 - 145	24	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	79.3		5 - 130
13C5 PFPeA	139	*5+	40 - 130
13C5 PFHxA	78.8		40 - 130
13C4 PFHpA	83.9		40 - 130
13C8 PFOA	91.4		40 - 130
13C9 PFNA	103		40 - 130
13C6 PFDA	90.3		40 - 130
13C7 PFUnA	86.9		30 - 130
13C2 PFDoA	85.9		10 - 130
13C2 PFTeDA	88.8		10 - 130
13C6 PFTrDA	92.8		20 - 150
13C3 PFBS	92.7		40 - 135
13C3 PFHxS	98.1		40 - 130
13C8 PFOS	110		40 - 130
13C8 PFOSA	89.6		40 - 130
d3-NMeFOSAA	110		40 - 170
d5-NEtFOSAA	113		25 - 135
13C2 4:2 FTS	76.6		40 - 200
13C2 6:2 FTS	98.5		40 - 200
13C2 8:2 FTS	74.0		40 - 300
13C3 HFPO-DA	83.7		40 - 130
d7-N-MeFOSE-M	107		10 - 130
d9-N-EtFOSE-M	107		10 - 130
d5-NEtPFOSA	76.6		10 - 130
d3-NMePFOSA	68.1		10 - 130
13C3-3:3 FTCA	99.3		20 - 150
13C3-5:3 FTCA	82.6		20 - 150

Lab Sample ID: LLCS 320-913800/2-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.72		ng/L		97	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.29		ng/L		82	65 - 135

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QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-913800/2-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid (PFHxA)	4.00	3.64		ng/L		91	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.01		ng/L		100	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.07		ng/L		102	70 - 150
Perfluorononanoic acid (PFNA)	4.00	3.58		ng/L		90	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.95		ng/L		99	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.10		ng/L		102	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.88		ng/L		97	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	3.77		ng/L		94	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.88		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	2.95	J	ng/L		83	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.68		ng/L		98	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.27		ng/L		86	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.31		ng/L		89	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	2.80		ng/L		73	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.01		ng/L		78	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.61		ng/L		67	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	9.08		ng/L		121	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.50		ng/L		112	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	7.67		ng/L		100	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.91		ng/L		98	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.24		ng/L		81	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.31		ng/L		83	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	3.39		ng/L		85	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.67		ng/L		92	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	18.3		ng/L		92	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	16.8		ng/L		84	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.88		ng/L		96	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.19		ng/L		84	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.33		ng/L		83	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.31		ng/L		108	50 - 150

Eurofins Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-913800/2-A

Matrix: Water

Analysis Batch: 913968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	2.99		ng/L		75	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.26		ng/L		87	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.06		ng/L		81	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	3.57	2.63		ng/L		74	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	7.56		ng/L		94	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	17.8		ng/L		89	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	16.3		ng/L		81	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	78.3		5 - 130
13C5 PFPeA	113		40 - 130
13C5 PFHxA	92.0		40 - 130
13C4 PFHpA	86.2		40 - 130
13C8 PFOA	99.3		40 - 130
13C9 PFNA	103		40 - 130
13C6 PFDA	86.2		40 - 130
13C7 PFUnA	76.9		30 - 130
13C2 PFDoA	76.0		10 - 130
13C2 PFTeDA	69.9		10 - 130
13C6 PFTriDA	69.2		20 - 150
13C3 PFBS	88.3		40 - 135
13C3 PFHxS	89.8		40 - 130
13C8 PFOS	103		40 - 130
13C8 PFOSA	73.0		40 - 130
d3-NMeFOSAA	87.7		40 - 170
d5-NEtFOSAA	84.3		25 - 135
13C2 4:2 FTS	70.5		40 - 200
13C2 6:2 FTS	82.9		40 - 200
13C2 8:2 FTS	77.2		40 - 300
13C3 HFPO-DA	76.2		40 - 130
d7-N-MeFOSE-M	79.4		10 - 130
d9-N-EtFOSE-M	84.3		10 - 130
d5-NEtPFOSA	67.1		10 - 130
d3-NMePFOSA	58.2		10 - 130
13C3-3:3 FTCA	92.5		20 - 150
13C3-5:3 FTCA	79.3		20 - 150

QC Sample Results

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 - RA

Lab Sample ID: MB 320-913800/1-A

Matrix: Water

Analysis Batch: 914448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 913800

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS) - RA	<2.0		2.0	ng/L		04/27/26 12:05	04/30/26 14:30	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 PFHxS - RA	88.4		40 - 130			04/27/26 12:05	04/30/26 14:30	1

Lab Sample ID: LCS 320-913800/3-A

Matrix: Water

Analysis Batch: 914448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	38.3		ng/L		105	65 - 145
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C3 PFHxS - RA	81.0		40 - 130				

Lab Sample ID: LCSD 320-913800/4-A

Matrix: Water

Analysis Batch: 914448

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	36.6		ng/L		100	65 - 145	5	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C3 PFHxS - RA	83.4		40 - 130						

Lab Sample ID: LLCS 320-913800/2-A

Matrix: Water

Analysis Batch: 914448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 913800

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS) - RA	3.65	3.56		ng/L		98	65 - 145
Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits				
13C3 PFHxS - RA	83.6		40 - 130				

QC Association Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

LCMS

Prep Batch: 913800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210037-1	BWS2253-H1-AQ	Total/NA	Water	1633	
380-210037-1 - RA	BWS2253-H1-AQ	Total/NA	Water	1633	
MB 320-913800/1-A	Method Blank	Total/NA	Water	1633	
MB 320-913800/1-A - RA	Method Blank	Total/NA	Water	1633	
LCS 320-913800/3-A	Lab Control Sample	Total/NA	Water	1633	
LCS 320-913800/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-913800/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-913800/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-913800/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-913800/2-A - RA	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 913968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210037-1	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	913800
MB 320-913800/1-A	Method Blank	Total/NA	Water	QSM B-24	913800
LCS 320-913800/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	913800
LCSD 320-913800/4-A	Lab Control Sample Dup	Total/NA	Water	QSM B-24	913800
LLCS 320-913800/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	913800

Analysis Batch: 914143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210037-1 - RA	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	913800

Analysis Batch: 914448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-913800/1-A - RA	Method Blank	Total/NA	Water	QSM B-24	913800
LCS 320-913800/3-A - RA	Lab Control Sample	Total/NA	Water	QSM B-24	913800
LCSD 320-913800/4-A - RA	Lab Control Sample Dup	Total/NA	Water	QSM B-24	913800
LLCS 320-913800/2-A - RA	Lab Control Sample	Total/NA	Water	QSM B-24	913800

Lab Chronicle

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ
Date Collected: 04/22/26 11:30
Date Received: 04/23/26 09:20

Lab Sample ID: 380-210037-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			913800	WVD	EET SAC	04/27/26 12:05
Total/NA	Analysis	QSM B-24		1	913968	N1K	EET SAC	04/28/26 13:30
Total/NA	Prep	1633	RA		913800	WVD	EET SAC	04/27/26 12:05
Total/NA	Analysis	QSM B-24	RA	1	914143	S1M	EET SAC	04/29/26 09:38

Laboratory References:
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA00044	06-30-26
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468.03	01-20-27
Arizona	State	AZ0708	08-11-26
Arkansas DEQ	State	88-0691	05-17-26
California	State	2897	01-31-28
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-27
Illinois	NELAP	200060	03-31-27
Kansas	NELAP	E-10375	10-31-26
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-28
Massachusetts	State	M-CA044	06-30-26
Michigan	State	9947	08-03-26
Minnesota	NELAP	006-999-474	12-31-26
Nevada	State	CA00044	07-31-26
New Jersey	NELAP	CA005	06-30-26
New York	NELAP	11666	04-01-27
Ohio	State	41252	01-29-27
Oregon	NELAP	4040	01-29-27
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26
USDA	US Federal Programs	525-23-59-76739	03-01-27
Utah	NELAP	CA000442023-16	02-28-27
Virginia	NELAP	460278	09-30-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	01-31-27
West Virginia DEP	State	422	07-31-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pomona

Method Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Method	Method Description	Protocol	Laboratory
QSM B-24	PFAS for QSM 6.0, Table B-24	DoD 6.0	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

Protocol References:

DoD 6.0 = Department of Defense Quality Systems Manual V6.0
EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210037-1
SDG: Site H1 PFAS 1633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-210037-1	BWS2253-H1-AQ	Water	04/22/26 11:30	04/23/26 09:20	Hawaii

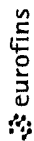
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Ver- 10/10/2024

Ver- 10/10/2024

Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone: 626-386-1100

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler N/A	Lab Pkt: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-326892.1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@eurofins.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State - Hawaii			Job #: 380-210037-1
Address: 880 Riverside Parkway, West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) 916-372-1059(Fax) Email: N/A		Due Date Requested: 5/6/2026 TAT Requested (days): N/A		Preservation Codes: -	
Project Name: INTERA - Red-Hill-Incident Site: Honolulu BWS Sites		PO #: N/A	WO #: N/A	Analysis Requested	
Project #: 38000861 SSOW#: N/A		Sample Date 4/22/26	Sample Time 11:30 Hawaiian	Sample Type (C=Comp, G=Grab) G	Matrix (Water, Soil, Sediment, Air) Water
Sample Identification - Client ID (Lab ID) BWS2253-H1-AQ (380-210037-1)		Field Filled Sample (Yes or No) X		Perform MS/MSD (Yes or No) X	
		1633 DOD6/1633_SPE_125(MOD) EPA Method 1633 Std List		Total Number of Containers 2	
		Special Instructions/Note: Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater West, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Drinking Water and Wastewater West, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater West, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater West, LLC.			
Possible Hazard Identification Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested, I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by		Method of Shipment:			
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact: Δ No		Custody Seal No. 2189714		Cooler Temperature(s) °C and Other Remarks: 1, 2, 3	

Ver 03/20/2026



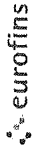
Chain of Custody Record



Environment Testing

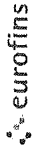
Client Information (Sub Contract Lab)				Sampler: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-326892.1	
Client Contact: Shipping/Receiving				Phone: N/A		State of Origin: Hawaii		Page: Page 1 of 1	
Company: Eurofins Environment Testing Northern Ca				Address: 8880 Riverside Parkway, West Sacramento, CA 95605		City: N/A		Job #: 380-210037-1	
Due Date Requested: 5/6/2026				TAT Requested (days): N/A		PO #: N/A		Project #: 38000861	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)				Email: N/A		WO #: N/A		SSOW#: N/A	
Project Name: INTERA - Red-Hill Incident				Site: Honolulu BWS Sites		Sample Date: 4/22/26		Sample Time: 11:30 Hawaiian	
Sample Identification - Client ID (Lab ID)				Sample Type (C=Comp, G=Grab)		Sample Matrix (W=Water, S=Solid, O=Other)		Preservation Code: G Water	
BWS253-H1-AQ (380-210037-1)									
Analysis Requested Field Filtered Sample (Yes or No) ☒ 1633.DDS/1633_SPE_126(MOD) EPA Method 1633 Perform MS/MSD (Yes or No) ☒ Bid List Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X Field Filtered Sample (Yes or No) ☒ X				Total Number of Containers		Special Instructions/Note:			
Possible Hazard Identification Unconfirmed Deliverable Requested. I II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Relinquished by: Relinquished by: Relinquished by:				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:		Method of Shipment Received by: <i>[Signature]</i> Date/Time: 04/23/26 09:20 Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____		Custody Seal No. 2189716 Custody Seals Intact: A No	

Chain of Custody Record



Client Information		Sampler: <u>LAB 608-321-0083</u>		Lab PM: <u>Lopez, Maria</u>		Carrier Tracking No(s):		COC No: <u>380-109487-32622.1</u>	
Client Contact: <u>Harriet Bentley, ERWIN KAWADA</u>		Phone: <u>858-205-0320</u>		E-Mail: <u>Maria.Lopez@eurofins.com</u>		State of Origin: <u>HI</u>		Page: <u>Page 1 of 1</u>	
Company: <u>INTERA - Red-Hill-Incident</u>		PWSID: <u>858-205-0320</u>		Analysis Requested		Job #:		Preservation Codes: <u>N - None</u>	
Address: <u>1000 KALANANUO BLVD, SUITE 100, HONOLULU, HI 96813</u>		Due Date Requested:		1633_DOD6 - EPA Method 1633 Std List		Total Number of Containers		Other:	
City: <u>HONOLULU</u>		TAT Requested (days): <u>STANDARD</u>		Perform MS/MSD (Yes or No)				Special Instructions/Note	
State Zip: <u>HI 96813</u>		Compliance Project: <u>Δ Yes</u>		Field Filtered Sample (Yes or No)					
Phone: <u>808-748-5061</u>		PO #: <u>C20525101 exp 05312023</u>		Sample Type (C=comp, G=grab)					
Email: <u>harrietbentley@interacorp.com</u>		WO #: <u>38000861</u>		Sample Time					
Project Name: <u>INTERA - Red-Hill-Incident</u>		SSON#: <u>HI</u>		Sample Date					
Site: <u>Howell HI</u>				Preservation Code:					
				Matrix (Water, Solid, Overstich, Strainer, Air, Drying)					
				Sample Date					
				Sample Time					
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Chain of Custody Record



Client Information		Sampler: <u>LAB 608-321-0083</u>		Lab PM: <u>Lopez, Maria</u>		Carrier Tracking No(s):		COC No: <u>380-109487-32622.1</u>	
Client Contact: <u>Harriet Bentley, ERWIN KAWATA</u>		Phone: <u>858-205-0320</u>		E-Mail: <u>Maria.Lopez@eurofins.com</u>		State of Origin: <u>HI</u>		Page: <u>Page 1 of 1</u>	
Company: <u>INTERA - Red-Hill-Incident</u>		PWSID: <u>858-205-0320</u>		Analysis Requested		Job #:		Preservation Codes: <u>N - None</u>	
Address: <u>1000 KALANANUO BLVD, SUITE 100, HONOLULU, HI 96813</u>		Due Date Requested:		1633_DOD6 - EPA Method 1633 Std List		Total Number of Containers		Other	
City: <u>HONOLULU</u>		TAT Requested (days): <u>STANDARD</u>		Perform MS/MSD (Yes or No)				Special Instructions/Note	
State Zip: <u>HI 96813</u>		Compliance Project: <u>Δ Yes</u>		Field Filtered Sample (Yes or No)					
Phone: <u>808-748-5061</u>		PO #: <u>C20525101 exp 05312023</u>		Sample Type (C=comp, G=grab)					
Email: <u>harrietbentley@interacorp.com</u>		WO #: <u>38000861</u>		Sample Time					
Project Name: <u>INTERA - Red-Hill-Incident</u>		SSON#: <u>HI</u>		Sample Date					
Site: <u>Howell HI</u>				Preservation Code:					
				Matrix (Water, Solid, Overstich, Strainer, Air, Drying)					
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-210037-1
SDG Number: Site H1 PFAS 1633

Login Number: 210037

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	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	
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	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-210037-1
SDG Number: Site H1 PFAS 1633

Login Number: 210037

List Number: 2

Creator: Morazzini, Dominic S

List Source: Eurofins Sacramento

List Creation: 04/23/26 05:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2189716
Sample custody seals, if present, are intact.	N/A	
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	1.2
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	