

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 1633

JOB NUMBER

380-202518-1

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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: 380-202518-1
SDG: Site H1 PFAS 1633

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: 380-202518-1

Job ID: 380-202518-1

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Job Narrative 380-202518-1

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 3/11/2026 9:30 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 time was 0.5°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: The following continuing calibration blank (CCB) was flagged for Isotope Dilution Analyte (IDA) recovery above the method recommended limit: (CCB 320-907228/4). The purpose of the CCB is to test for instrument contamination. As the CCB was non-detect for all native analytes, the bracketing continuing calibration verification (CCV) was in control, and the IDA of the associated samples recovered within limits, there is no adverse impact on data quality; therefore, the data 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: 380-202518-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-202518-1

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-202518-1

Date Collected: 03/10/26 09:15

Matrix: Water

Date Received: 03/11/26 09:30

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)	<3.0		3.0	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoropentanoic acid (PFPeA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorohexanoic acid (PFHxA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoroheptanoic acid (PFHpA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorooctanoic acid (PFOA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorononanoic acid (PFNA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorodecanoic acid (PFDA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoroundecanoic acid (PFUnA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorododecanoic acid (PFDoA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorotridecanoic acid (PFTriDA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorotetradecanoic acid (PFTeDA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorobutanesulfonic acid (PFBS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorohexanesulfonic acid (PFHxS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorooctanesulfonic acid (PFOS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorononanesulfonic acid (PFNS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorodecanesulfonic acid (PFDS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorododecanesulfonic acid (PFDoS)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<3.0		3.0	ng/L		03/16/26 20:02	03/18/26 00:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<3.0		3.0	ng/L		03/16/26 20:02	03/18/26 00:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<3.0		3.0	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluorooctanesulfonamide (PFOSA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.6		7.6	ng/L		03/16/26 20:02	03/18/26 00:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<7.6		7.6	ng/L		03/16/26 20:02	03/18/26 00:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.1	ng/L		03/16/26 20:02	03/18/26 00:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1

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Client Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-202518-1

Date Collected: 03/10/26 09:15

Matrix: Water

Date Received: 03/11/26 09:30

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
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<1.5		1.5	ng/L		03/16/26 20:02	03/18/26 00:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.0		3.0	ng/L		03/16/26 20:02	03/18/26 00:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.6		7.6	ng/L		03/16/26 20:02	03/18/26 00:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.6		7.6	ng/L		03/16/26 20:02	03/18/26 00:23	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	111		5 - 130			03/16/26 20:02	03/18/26 00:23	1
13C5 PFPeA	111		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C5 PFHxA	106		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C4 PFHpA	89.4		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C8 PFOA	96.0		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C9 PFNA	102		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C6 PFDA	98.2		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C7 PFUnA	92.4		30 - 130			03/16/26 20:02	03/18/26 00:23	1
13C2 PFDoA	88.3		10 - 130			03/16/26 20:02	03/18/26 00:23	1
13C2 PFTeDA	75.6		10 - 130			03/16/26 20:02	03/18/26 00:23	1
13C3 PFBS	96.2		40 - 135			03/16/26 20:02	03/18/26 00:23	1
13C3 PFHxS	101		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C8 PFOS	94.3		40 - 130			03/16/26 20:02	03/18/26 00:23	1
13C8 PFOSA	100		40 - 130			03/16/26 20:02	03/18/26 00:23	1
d3-NMeFOSAA	91.7		40 - 170			03/16/26 20:02	03/18/26 00:23	1
d5-NEtFOSAA	94.3		25 - 135			03/16/26 20:02	03/18/26 00:23	1
13C2 4:2 FTS	101		40 - 200			03/16/26 20:02	03/18/26 00:23	1
13C2 6:2 FTS	78.7		40 - 200			03/16/26 20:02	03/18/26 00:23	1
13C2 8:2 FTS	88.7		40 - 300			03/16/26 20:02	03/18/26 00:23	1
13C3 HFPO-DA	107		40 - 130			03/16/26 20:02	03/18/26 00:23	1
d7-N-MeFOSE-M	84.4		10 - 130			03/16/26 20:02	03/18/26 00:23	1
d9-N-EtFOSE-M	78.0		10 - 130			03/16/26 20:02	03/18/26 00:23	1
d5-NEtPFOSA	82.9		10 - 130			03/16/26 20:02	03/18/26 00:23	1
d3-NMePFOSA	87.6		10 - 130			03/16/26 20:02	03/18/26 00:23	1

Action Limit Summary

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-202518-1

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
Perfluorohexanesulfonic acid (PFHxS)	<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: 380-202518-1
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)
380-202518-1	BWS2253-H1-AQ	111	111	106	89.4	96.0	102	98.2	92.4
LCS 320-906812/3-A	Lab Control Sample	103	115	107	96.2	98.9	96.5	88.5	94.3
LCSD 320-906812/4-A	Lab Control Sample Dup	107	101	105	89.9	101	104	96.6	91.7
LLCS 320-906812/2-A	Lab Control Sample	103	109	101	93.0	89.8	104	108	98.1
MB 320-906812/1-A	Method Blank	106	120	116	107	98.5	94.2	97.8	88.4
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
380-202518-1	BWS2253-H1-AQ	88.3	75.6	96.2	101	94.3	100	91.7	94.3
LCS 320-906812/3-A	Lab Control Sample	70.5	56.2	97.4	96.6	103	76.4	97.4	88.1
LCSD 320-906812/4-A	Lab Control Sample Dup	86.4	60.1	104	100	91.5	68.9	97.1	92.6
LLCS 320-906812/2-A	Lab Control Sample	72.3	57.8	90.4	89.9	97.2	70.7	92.4	80.5
MB 320-906812/1-A	Method Blank	76.1	67.2	108	111	99.6	94.8	108	108
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
380-202518-1	BWS2253-H1-AQ	101	78.7	88.7	107	84.4	78.0	82.9	87.6
LCS 320-906812/3-A	Lab Control Sample	104	96.0	99.1	112	73.0	70.7	75.7	75.9
LCSD 320-906812/4-A	Lab Control Sample Dup	111	106	97.8	105	64.9	62.9	67.8	72.1
LLCS 320-906812/2-A	Lab Control Sample	96.2	93.2	95.1	108	65.5	57.6	60.2	62.4
MB 320-906812/1-A	Method Blank	111	113	118	120	99.5	95.9	87.5	90.6
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									
PFDaA = 13C2 PFDaA									
PFTDA = 13C2 PFTeDA									
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									

QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: MB 320-906812/1-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 906812

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorotridecanoic acid (PFTriDA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		03/16/26 20:02	03/17/26 18:37	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<10		10	ng/L		03/16/26 20:02	03/17/26 18:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		03/16/26 20:02	03/17/26 18:37	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: MB 320-906812/1-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 906812

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		03/16/26 20:02	03/17/26 18:37	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		03/16/26 20:02	03/17/26 18:37	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		03/16/26 20:02	03/17/26 18:37	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	106		5 - 130	03/16/26 20:02	03/17/26 18:37	1
13C5 PFPeA	120		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C5 PFHxA	116		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C4 PFHpA	107		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C8 PFOA	98.5		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C9 PFNA	94.2		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C6 PFDA	97.8		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C7 PFUnA	88.4		30 - 130	03/16/26 20:02	03/17/26 18:37	1
13C2 PFDoA	76.1		10 - 130	03/16/26 20:02	03/17/26 18:37	1
13C2 PFTeDA	67.2		10 - 130	03/16/26 20:02	03/17/26 18:37	1
13C3 PFBS	108		40 - 135	03/16/26 20:02	03/17/26 18:37	1
13C3 PFHxS	111		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C8 PFOS	99.6		40 - 130	03/16/26 20:02	03/17/26 18:37	1
13C8 PFOSA	94.8		40 - 130	03/16/26 20:02	03/17/26 18:37	1
d3-NMeFOSAA	108		40 - 170	03/16/26 20:02	03/17/26 18:37	1
d5-NEtFOSAA	108		25 - 135	03/16/26 20:02	03/17/26 18:37	1
13C2 4:2 FTS	111		40 - 200	03/16/26 20:02	03/17/26 18:37	1
13C2 6:2 FTS	113		40 - 200	03/16/26 20:02	03/17/26 18:37	1
13C2 8:2 FTS	118		40 - 300	03/16/26 20:02	03/17/26 18:37	1
13C3 HFPO-DA	120		40 - 130	03/16/26 20:02	03/17/26 18:37	1
d7-N-MeFOSE-M	99.5		10 - 130	03/16/26 20:02	03/17/26 18:37	1
d9-N-EtFOSE-M	95.9		10 - 130	03/16/26 20:02	03/17/26 18:37	1
d5-NEtPFOSA	87.5		10 - 130	03/16/26 20:02	03/17/26 18:37	1
d3-NMePFOSA	90.6		10 - 130	03/16/26 20:02	03/17/26 18:37	1

Lab Sample ID: LCS 320-906812/3-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	81.3		ng/L		102	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	40.7		ng/L		102	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	35.3		ng/L		88	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	42.6		ng/L		106	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	41.9		ng/L		105	70 - 150
Perfluorononanoic acid (PFNA)	40.0	43.3		ng/L		108	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	46.0		ng/L		115	70 - 140

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LCS 320-906812/3-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	34.9		ng/L		87	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	41.9		ng/L		105	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	35.9		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	48.5		ng/L		121	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	31.9		ng/L		90	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	37.6		ng/L		100	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.4		ng/L		97	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	44.2		ng/L		116	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	36.2		ng/L		97	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	41.4		ng/L		108	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	33.5		ng/L		87	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	28.2		ng/L		73	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	76.3		ng/L		102	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	84.0		ng/L		110	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	69.2		ng/L		90	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	43.3		ng/L		108	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	41.8		ng/L		105	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	42.6		ng/L		106	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.3		ng/L		96	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.3		ng/L		96	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	196		ng/L		98	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	190		ng/L		95	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	30.0		ng/L		100	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.4		ng/L		101	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	35.8		ng/L		90	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	41.5		ng/L		104	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	36.4		ng/L		91	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	38.4		ng/L		103	70 - 155

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LCS 320-906812/3-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	31.0		ng/L		82	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	35.4		ng/L		99	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	74.8		ng/L		93	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	198		ng/L		99	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	190		ng/L		95	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	103		5 - 130
13C5 PFPeA	115		40 - 130
13C5 PFHxA	107		40 - 130
13C4 PFHpA	96.2		40 - 130
13C8 PFOA	98.9		40 - 130
13C9 PFNA	96.5		40 - 130
13C6 PFDA	88.5		40 - 130
13C7 PFUnA	94.3		30 - 130
13C2 PFDoA	70.5		10 - 130
13C2 PFTeDA	56.2		10 - 130
13C3 PFBS	97.4		40 - 135
13C3 PFHxS	96.6		40 - 130
13C8 PFOS	103		40 - 130
13C8 PFOSA	76.4		40 - 130
d3-NMeFOSAA	97.4		40 - 170
d5-NEtFOSAA	88.1		25 - 135
13C2 4:2 FTS	104		40 - 200
13C2 6:2 FTS	96.0		40 - 200
13C2 8:2 FTS	99.1		40 - 300
13C3 HFPO-DA	112		40 - 130
d7-N-MeFOSE-M	73.0		10 - 130
d9-N-EtFOSE-M	70.7		10 - 130
d5-NEtPFOSA	75.7		10 - 130
d3-NMePFOSA	75.9		10 - 130

Lab Sample ID: LCSD 320-906812/4-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	76.0		ng/L		95	70 - 140	7	30
Perfluoropentanoic acid (PFPeA)	40.0	40.5		ng/L		101	65 - 135	1	30
Perfluorohexanoic acid (PFHxA)	40.0	37.1		ng/L		93	70 - 145	5	30
Perfluoroheptanoic acid (PFHpA)	40.0	42.8		ng/L		107	70 - 150	0	30
Perfluorooctanoic acid (PFOA)	40.0	43.9		ng/L		110	70 - 150	5	30
Perfluorononanoic acid (PFNA)	40.0	42.0		ng/L		105	70 - 150	3	30
Perfluorodecanoic acid (PFDA)	40.0	40.8		ng/L		102	70 - 140	12	30

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LCSD 320-906812/4-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	40.0	38.1		ng/L		95	70 - 145	9	30
Perfluorododecanoic acid (PFDoA)	40.0	41.3		ng/L		103	70 - 140	1	30
Perfluorotridecanoic acid (PFTrDA)	40.0	37.1		ng/L		93	65 - 140	3	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	45.1		ng/L		113	60 - 140	7	30
Perfluorobutanesulfonic acid (PFBS)	35.5	32.8		ng/L		92	60 - 145	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	36.7		ng/L		98	65 - 140	2	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	35.6		ng/L		98	65 - 145	0	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	45.0		ng/L		118	70 - 150	2	30
Perfluorooctanesulfonic acid (PFOS)	37.2	38.1		ng/L		102	55 - 150	5	30
Perfluorononanesulfonic acid (PFNS)	38.5	43.5		ng/L		113	65 - 145	5	30
Perfluorodecanesulfonic acid (PFDS)	38.6	40.1		ng/L		104	60 - 145	18	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	28.2		ng/L		73	50 - 145	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	71.7		ng/L		96	70 - 145	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	75.7		ng/L		99	65 - 155	10	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	80.3		ng/L		105	60 - 150	15	30
Perfluorooctanesulfonamide (PFOSA)	40.0	41.3		ng/L		103	70 - 145	5	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	39.6		ng/L		99	60 - 150	6	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	40.8		ng/L		102	65 - 145	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.9		ng/L		92	50 - 140	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	33.7		ng/L		84	70 - 145	13	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	192		ng/L		96	70 - 145	2	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	186		ng/L		93	70 - 135	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	27.9		ng/L		93	70 - 140	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	33.3		ng/L		88	65 - 145	14	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	41.9		ng/L		105	60 - 150	16	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	37.7		ng/L		94	50 - 150	10	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	38.9		ng/L		97	55 - 140	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	43.9		ng/L		118	70 - 155	13	30

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LCSD 320-906812/4-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	37.4		ng/L		99	55 - 160	19	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	33.4		ng/L		93	70 - 140	6	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	75.8		ng/L		95	65 - 130	1	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	179		ng/L		89	70 - 135	10	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	177		ng/L		89	50 - 145	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	107		5 - 130
13C5 PFPeA	101		40 - 130
13C5 PFHxA	105		40 - 130
13C4 PFHpA	89.9		40 - 130
13C8 PFOA	101		40 - 130
13C9 PFNA	104		40 - 130
13C6 PFDA	96.6		40 - 130
13C7 PFUnA	91.7		30 - 130
13C2 PFDoA	86.4		10 - 130
13C2 PFTeDA	60.1		10 - 130
13C3 PFBS	104		40 - 135
13C3 PFHxS	100		40 - 130
13C8 PFOS	91.5		40 - 130
13C8 PFOSA	68.9		40 - 130
d3-NMeFOSAA	97.1		40 - 170
d5-NEtFOSAA	92.6		25 - 135
13C2 4:2 FTS	111		40 - 200
13C2 6:2 FTS	106		40 - 200
13C2 8:2 FTS	97.8		40 - 300
13C3 HFPO-DA	105		40 - 130
d7-N-MeFOSE-M	64.9		10 - 130
d9-N-EtFOSE-M	62.9		10 - 130
d5-NEtPFOSA	67.8		10 - 130
d3-NMePFOSA	72.1		10 - 130

Lab Sample ID: LLCS 320-906812/2-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	7.90		ng/L		99	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.82		ng/L		96	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	3.89		ng/L		97	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.20		ng/L		105	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.75		ng/L		119	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.87		ng/L		122	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.06		ng/L		101	70 - 140

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QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LLCS 320-906812/2-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	4.00	3.70		ng/L		92	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	3.95		ng/L		99	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	3.59		ng/L		90	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.37		ng/L		109	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.26		ng/L		92	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.37		ng/L		90	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.80		ng/L		104	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.65		ng/L		122	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	4.00		ng/L		108	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	4.54		ng/L		118	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.31		ng/L		86	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.54		ng/L		65	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.53		ng/L		100	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.66		ng/L		114	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.27		ng/L		108	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	3.99		ng/L		100	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	3.58		ng/L		90	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	3.92		ng/L		98	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.24		ng/L		106	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	3.61		ng/L		90	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	17.9		ng/L		90	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	19.6		ng/L		98	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.89		ng/L		96	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.26		ng/L		86	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.54		ng/L		88	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	3.57		ng/L		89	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.44		ng/L		86	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	4.55		ng/L		122	70 - 155

Eurofins Pomona

QC Sample Results

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

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

Lab Sample ID: LLCS 320-906812/2-A

Matrix: Water

Analysis Batch: 907228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 906812

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	2.86		ng/L		76	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	3.57	3.35		ng/L		94	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.38		ng/L		105	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	18.7		ng/L		94	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	19.2		ng/L		96	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	103		5 - 130
13C5 PFPeA	109		40 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	93.0		40 - 130
13C8 PFOA	89.8		40 - 130
13C9 PFNA	104		40 - 130
13C6 PFDA	108		40 - 130
13C7 PFUnA	98.1		30 - 130
13C2 PFDoA	72.3		10 - 130
13C2 PFTeDA	57.8		10 - 130
13C3 PFBS	90.4		40 - 135
13C3 PFHxS	89.9		40 - 130
13C8 PFOS	97.2		40 - 130
13C8 PFOSA	70.7		40 - 130
d3-NMeFOSAA	92.4		40 - 170
d5-NEtFOSAA	80.5		25 - 135
13C2 4:2 FTS	96.2		40 - 200
13C2 6:2 FTS	93.2		40 - 200
13C2 8:2 FTS	95.1		40 - 300
13C3 HFPO-DA	108		40 - 130
d7-N-MeFOSE-M	65.5		10 - 130
d9-N-EtFOSE-M	57.6		10 - 130
d5-NEtPFOSA	60.2		10 - 130
d3-NMePFOSA	62.4		10 - 130

QC Association Summary

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

LCMS

Prep Batch: 906812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202518-1	BWS2253-H1-AQ	Total/NA	Water	1633	
MB 320-906812/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-906812/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-906812/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-906812/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 907228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202518-1	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	906812
MB 320-906812/1-A	Method Blank	Total/NA	Water	QSM B-24	906812
LCS 320-906812/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	906812
LCSD 320-906812/4-A	Lab Control Sample Dup	Total/NA	Water	QSM B-24	906812
LLCS 320-906812/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	906812

Lab Chronicle

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

Job ID: 380-202518-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ
Date Collected: 03/10/26 09:15
Date Received: 03/11/26 09:30

Lab Sample ID: 380-202518-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			906812	CJS	EET SAC	03/16/26 20:02
Total/NA	Analysis	QSM B-24		1	907228	K1D	EET SAC	03/18/26 00:23

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: 380-202518-1
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	05-18-26
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	03-31-26
Kansas	NELAP	E-10375	10-31-26
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-26
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	04-01-26
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
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	03-28-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

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

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Method Summary

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

Job ID: 380-202518-1
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: 380-202518-1
SDG: Site H1 PFAS 1633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-202518-1	BWS2253-H1-AQ	Water	03/10/26 09:15	03/11/26 09:30	Hawaii

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Chain of Custody Record

Client Information		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No:	
Client Contact: Mr Erwin Kawata		Phone: 858-205-0730		E-Mail: Maria.Lopez@eurofins.com		State of Origin: Hawaii	
Company: City & County of Honolulu		PWSID		Analysis Requested		Page: Page 1 of 1	
Address: 630 South Beretania Street		Due Date Requested:		TAT Requested (days): Standard		Job #:	
City: Honolulu		State, Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Preservation Codes: A - HCLD N - None	
Phone: 808-748-5066		PO #:		WC #:		Other:	
Email: ekawata@hbw.org		Project #:		SSOW#:		Special Instructions/Note:	
Project Name: INTERA - Red-Hill Incident		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Site: H1		Matrix (V=Water, S=Solid, O=Other, All B=Unknown, DW=Drinking Water)		Field Filtered Sample (Yes or No)		1631 DDB - EPA Method 1631 SLD List	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
BWS2253-H1-AQ		3/10/2026		9:15		G Water	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		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:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by		Date:		Time:		Method of Shipment	
Relinquished by: [Signature]		Date/Time: 3/10/2026 14:00		Company: INTERA		Date/Time: 03/11/26 0930	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: (YES) ☒ No ☐		Custody Seal No.: 2189612		Cooler Temperature(s): 0.5°C		Other Remarks:	



Chain of Custody Record

Client Information (Sub Contract Lab)				Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact				E-Mail:	State of Origin:	Page:
Shipping/Receiving				E-Mail:	State of Origin:	Page:
Company				Accreditations Required (See note):		
Eurofins Environment Testing Northern Ca				State - Hawaii		
Address:				Preservation Codes:		
City				Due Date Requested:		
West Sacramento				3/24/2026		
State, Zip:				TAT Requested (days):		
CA, 95605				N/A		
Phone:				PO #:		
916-373-5600(Tel) 916-372-1059(Fax)				N/A		
Email:				WO #:		
N/A				N/A		
Project Name:				Project #:		
INTERA - Red-Hill-Incident				38000861		
Site:				SSOW#:		
Honolulu BWS Sites				N/A		
Sample Identification - Client ID (Lab ID)				Sample Date		
BWS2253-H1-AQ (380-202518-1)				3/10/26		
Sample Type (C=comp, G=grab)				Sample Time		
G				09-15 Hawaiian		
Matrix (W=water, S=solid, O=other)				Preservation Code		
Water				G		
Field Filled Sample (Yes or No)				Perform MS/MSD (Yes or No)		
X				X		
Total Number of Containers				Special Instructions/Note:		
2				1633.D06/1633_SPE_126EPA Method 1633 Std List		
Other:				N/A		
COC No:				380-313407 1		
Page:				Page 1 of 1		
Job #:				380-202518-1		
Preservation Codes:				-		
Analysis Requested						
Due Date Requested:						
3/24/2026						
TAT Requested (days):						
N/A						
PO #:						
N/A						
WO #:						
N/A						
Project #:						
38000861						
SSOW#:						
N/A						
Sample Date						
3/10/26						
Sample Time						
09-15 Hawaiian						
Sample Type (C=comp, G=grab)						
G						
Matrix (W=water, S=solid, O=other)						
Water						
Field Filled Sample (Yes or No)						
X						
Perform MS/MSD (Yes or No)						
X						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Total Number of Containers						
2						
Special Instructions/Note:						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Other:						
N/A						
COC No:						
380-313407 1						
Page:						
Page 1 of 1						
Job #:						
380-202518-1						
Preservation Codes:						
-						
Analysis Requested						
Due Date Requested:						
3/24/2026						
TAT Requested (days):						
N/A						
PO #:						
N/A						
WO #:						
N/A						
Project #:						
38000861						
SSOW#:						
N/A						
Sample Date						
3/10/26						
Sample Time						
09-15 Hawaiian						
Sample Type (C=comp, G=grab)						
G						
Matrix (W=water, S=solid, O=other)						
Water						
Field Filled Sample (Yes or No)						
X						
Perform MS/MSD (Yes or No)						
X						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Total Number of Containers						
2						
Special Instructions/Note:						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Other:						
N/A						
COC No:						
380-313407 1						
Page:						
Page 1 of 1						
Job #:						
380-202518-1						
Preservation Codes:						
-						
Analysis Requested						
Due Date Requested:						
3/24/2026						
TAT Requested (days):						
N/A						
PO #:						
N/A						
WO #:						
N/A						
Project #:						
38000861						
SSOW#:						
N/A						
Sample Date						
3/10/26						
Sample Time						
09-15 Hawaiian						
Sample Type (C=comp, G=grab)						
G						
Matrix (W=water, S=solid, O=other)						
Water						
Field Filled Sample (Yes or No)						
X						
Perform MS/MSD (Yes or No)						
X						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Total Number of Containers						
2						
Special Instructions/Note:						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Other:						
N/A						
COC No:						
380-313407 1						
Page:						
Page 1 of 1						
Job #:						
380-202518-1						
Preservation Codes:						
-						
Analysis Requested						
Due Date Requested:						
3/24/2026						
TAT Requested (days):						
N/A						
PO #:						
N/A						
WO #:						
N/A						
Project #:						
38000861						
SSOW#:						
N/A						
Sample Date						
3/10/26						
Sample Time						
09-15 Hawaiian						
Sample Type (C=comp, G=grab)						
G						
Matrix (W=water, S=solid, O=other)						
Water						
Field Filled Sample (Yes or No)						
X						
Perform MS/MSD (Yes or No)						
X						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Total Number of Containers						
2						
Special Instructions/Note:						
1633.D06/1633_SPE_126EPA Method 1633 Std List						
Other:						
N/A						
COC No:						
380-313407 1						
Page:						
Page 1 of 1						
Job #:						
380-202518-1						
Preservation Codes:						
-						
Analysis Requested						
Due Date Requested:						
3/24/2026						
TAT Requested (days):						
N/A						
PO #:						
N/A						
WO #:						
N/A						
Project #:						
38000861						
SSOW#:						
N/A						
Sample Date						
3/10/26						
Sample Time						
09-15 Hawaiian						
Sample Type (C=comp, G=grab)						

Chain of Custody Record

Client Information		Sampler H Bentley	Lab PM Lopez, Maria	Carrier Tracking No(s)	COC No:
Client Contact Mr Erwin Kawata		Phone: 858-205-0730	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin Hawaii	Page: Page 1 of 1
Company City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street		Due Date Requested		Analysis Requested	
City Honolulu		TAT Requested (days) Standard		Preservation Codes A - HCLD N - None	
State Zip: HI 96843		Compliance Project: ☐ Yes ☒ No		Other	
Phone: 808-748-5066		PO #:		Total Number of containers	
Email: ekawata@hbws.org		WO #:		Special Instructions/Note:	
Project Name: INTERA - Red-Hill-Incident		Project #: 38000861		BILL TO POMONA EEA	
Site: H1		SSOW#:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overfill, B=Tissue As Air, DW=Drinking water)
BWS2253-H1-AQ		3/10/2026	9:15	G	Water
					
380-202518 Chain of Custody					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested I, II, III, IV, Other (specify)					
Empty Kit Relinquished by		Date		Time	
Relinquished by		Date/Time: 3/10/26 14:00	Company INTERA		Received by DSM
Relinquished by		Date/Time:	Company		Date/Time: 03/11/26 0930
Relinquished by		Date/Time:	Company		Date/Time:
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No. 2189612		Cooler Temperature(s) °C and Other Remarks: 0.5°C	

Page 27 of 32

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

Chain of Custody Record

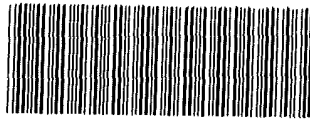


eurofins | Environment Testing

Client Information (Sub Contract Lab)		Sampler N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-313407 1
Client Contact		Phone: N/A	E-Mail: Maria.Lopez@et.eurofins.com	State of Origin: Hawaii	Page: Page 1 of 1
Shipping/Receiving					
Company Eurofins Environment Testing Northern CA		Accreditations Required (See note): State - Hawaii			
Address: 880 Riverside Parkway, West Sacramento State, Zip: CA, 95605		Due Date Requested: 3/24/2026			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days): N/A			
Email: N/A		PO #: N/A			
Project #: 38000861		WO #: N/A			
Site: Honolulu BWS Sites		Project #: N/A			
		SSOW#: N/A			
		Matrix (Water, Solid, Oil)			
		Sample Type (C=comp, G=grab)			
		Sample Time 09-15 Hawaiian			
		Sample Date 3/10/26			
		Preservation Code: G Water			
		Field Filled Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 DDB/1633 SPE, 125EPA Method 1633 Sid List			
		Total Number of Containers			
		Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)		BWS2253-H1-AQ (380-202518-1)			
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/tests/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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2			
Empty Kit Relinquished by		Date:			
Relinquished by:		Company			
Relinquished by:		Company			
Relinquished by:		Company			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			

Chain of Custody Record

Client Information		Lab PM Lopez, Maria		Carrier Tracking No(s)		COC No:	
Client Contact: Mr Erwin Kawata		Phone: 858-205-0730		State of Origin: Hawaii		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street		Due Date Requested		1633_OD6 - EPA Method 1633 Std List		Preservation Codes A - HCLD N - None	
City: Honolulu		TAT Requested (days) Standard		Perform MS/MSD (Yes or No)		Other	
State Zip: HI, 96843		Compliance Project: ☐ Yes ☐ No		Field Filtered Sample (Yes or No)		Total Number of containers	
Phone: 808-748-5066		PO #:		N		Special Instructions/Note:	
Email: ekawata@hbws.org		WO #:		2		BILL TO POMONA EEA	
Project Name: INTERA - Red-Hill-Incident		Project #: 38000861					
Site: H1		SSOW#:					
		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
		3/10/2026		9:15		G	
		Preservation Code:		Water			
		Matrix (W=water, S=solid, O=wastewater, BT=tissue, AD=air, DW=drinking water)					
Sample Identification							
BWS2253-H1-AQ							
							
380-202518 Chain of Custody							
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		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:		Date		Time		Method of Shipment	
Relinquished by: 		Date/Time: 3/10/26 14:00		Company: INTERA		Date/Time: 3/10/26 0930 Company: POMONA	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No. 2189612		Cooler Temperature(s) °C and Other Remarks: 0.5°C			



380-202518 Field Sheet

3/10/26



Environment Testing
TestAmerica

2189612

ORIGIN ID: HNLA (512) 425-2000
DIANE GARCIA
INTERA INC
9600 GREAT HILLS TRL STE 300W

AUSTIN, TX 78759
UNITED STATES US

SHIP DATE: 10MAR26
ACTWGT: 7.45 LB
CAD: 6572460/RESA2710
DIMS: 12x8x10 IN

BILL THIRD PARTY

Part # 156297-438 RH082 Exp 11/26

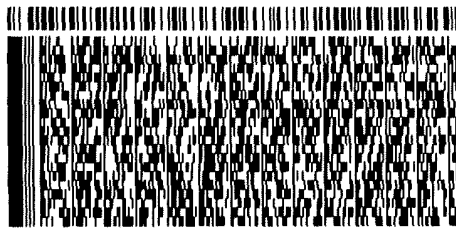
TO **EUROFINS SACRAMENTO**
LETO MALDONADO
880 RIVERSIDE PKWY

WEST SACRAMENTO CA 95605

(916) 373-6800
INVT
PO:

REF:

DEPT:



FedEx
Express



AA L002100201927

2 of 2

MPS# 8894 9028 4520
02F3

Mstr# 8894 9028 4519

0201

WD BLUA

WED - 11 MAR 10:30A
PRIORITY OVERNIGHT

DSR

95605

CA-US SMF



SIGNATURE



Environment Testing
TestAmerica

DATE

Custody Seal

2189612

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-202518-1
SDG Number: Site H1 PFAS 1633

Login Number: 202518

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-202518-1
SDG Number: Site H1 PFAS 1633

Login Number: 202518

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 03/11/26 06:04 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2189612
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	0.5c
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	