

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H PFAS 1633

JOB NUMBER

380-192585-1

Eurofins Pomona

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: 380-192585-1
SDG: Site H PFAS 1633

Qualifiers

LCMS

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

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: 380-192585-1

Job ID: 380-192585-1

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Job Narrative 380-192585-1

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 1/15/2026 9:45 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 1.1°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: One or more sample extracts were diluted (as indicated in the report) due to QC anomalies attributed to matrix effects OR high target analyte concentrations. Elevated reporting limits (RLs) are provided. Unless otherwise noted, the dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method QSM B-24: Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-898070 and analytical batch 320-898244 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method QSM B-24: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-898070 and analytical batch 320-898244 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method QSM B-24: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 320-898070 and analytical batch 320-898244 was outside control limits. Sample matrix interference is suspected.

Method QSM B-24: The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: (320-128916-B-10-A), (320-128916-B-10-B MS) and (320-128916-A-10-A MSD). These analytes have been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

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: 380-192585-1
SDG: Site H PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192585-1

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: 380-192585-1
SDG: Site H PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192585-1

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/15/26 09:45

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)	<2.8		2.8	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoropentanoic acid (PFPeA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorohexanoic acid (PFHxA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoroheptanoic acid (PFHpA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorooctanoic acid (PFOA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorononanoic acid (PFNA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorodecanoic acid (PFDA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoroundecanoic acid (PFUnA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorododecanoic acid (PFDoA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorotridecanoic acid (PFTrDA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorotetradecanoic acid (PFTeDA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorobutanesulfonic acid (PFBS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoropentanesulfonic acid (PFPeS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorohexanesulfonic acid (PFHxS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorooctanesulfonic acid (PFOS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorononanesulfonic acid (PFNS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorodecanesulfonic acid (PFDS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorododecanesulfonic acid (PFDoS)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.8		2.8	ng/L		01/21/26 20:11	01/22/26 23:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.8		2.8	ng/L		01/21/26 20:11	01/22/26 23:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.8		2.8	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluorooctanesulfonamide (PFOSA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.0		7.0	ng/L		01/21/26 20:11	01/22/26 23:20	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<7.0		7.0	ng/L		01/21/26 20:11	01/22/26 23:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		1.0	ng/L		01/21/26 20:11	01/22/26 23:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1

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Client Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-192585-1

Date Collected: 01/14/26 11:20

Matrix: Water

Date Received: 01/15/26 09:45

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	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<1.4		1.4	ng/L		01/21/26 20:11	01/22/26 23:20	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<2.8		2.8	ng/L		01/21/26 20:11	01/22/26 23:20	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.0		7.0	ng/L		01/21/26 20:11	01/22/26 23:20	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.0		7.0	ng/L		01/21/26 20:11	01/22/26 23:20	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	74.9		5 - 130			01/21/26 20:11	01/22/26 23:20	1
13C5 PFPeA	90.7		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C5 PFHxA	92.7		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C4 PFHpA	94.3		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C8 PFOA	91.9		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C9 PFNA	82.5		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C6 PFDA	87.0		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C7 PFUnA	75.6		30 - 130			01/21/26 20:11	01/22/26 23:20	1
13C2 PFDoA	84.1		10 - 130			01/21/26 20:11	01/22/26 23:20	1
13C2 PFTeDA	70.7		10 - 130			01/21/26 20:11	01/22/26 23:20	1
13C3 PFBS	96.5		40 - 135			01/21/26 20:11	01/22/26 23:20	1
13C3 PFHxS	102		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C8 PFOS	97.2		40 - 130			01/21/26 20:11	01/22/26 23:20	1
13C8 PFOSA	93.2		40 - 130			01/21/26 20:11	01/22/26 23:20	1
d3-NMeFOSAA	67.7		40 - 170			01/21/26 20:11	01/22/26 23:20	1
d5-NEtFOSAA	90.7		25 - 135			01/21/26 20:11	01/22/26 23:20	1
13C2 4:2 FTS	112		40 - 200			01/21/26 20:11	01/22/26 23:20	1
13C2 6:2 FTS	89.9		40 - 200			01/21/26 20:11	01/22/26 23:20	1
13C2 8:2 FTS	80.5		40 - 300			01/21/26 20:11	01/22/26 23:20	1
13C3 HFPO-DA	94.8		40 - 130			01/21/26 20:11	01/22/26 23:20	1
d7-N-MeFOSE-M	92.8		10 - 130			01/21/26 20:11	01/22/26 23:20	1
d9-N-EtFOSE-M	82.6		10 - 130			01/21/26 20:11	01/22/26 23:20	1
d5-NEtPFOSA	86.8		10 - 130			01/21/26 20:11	01/22/26 23:20	1
d3-NMePFOSA	84.5		10 - 130			01/21/26 20:11	01/22/26 23:20	1

Isotope Dilution Summary

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

Job ID: 380-192585-1
SDG: Site H 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)
320-128916-A-10-A MSD	Matrix Spike Duplicate	91.4 *3	89.8 *3	96.1 *3	85.8 *3	106 *3	95.8 *3	105 *3	95.7 *3
320-128916-B-10-B MS	Matrix Spike	94.9 *3	97.0 *3	93.6 *3	98.3 *3	88.8 *3	88.3 *3	95.6 *3	91.0 *3
380-192585-1	BWS2253-H1-AQ	74.9	90.7	92.7	94.3	91.9	82.5	87.0	75.6
LCS 320-898070/3-A	Lab Control Sample	86.8	98.1	97.1	100	96.5	113	97.8	92.7
LCS 320-898070/3-A - RA	Lab Control Sample		101						
LLCS 320-898070/2-A	Lab Control Sample	85.8	100	84.6	99.7	98.5	94.1	96.8	94.3
MB 320-898070/1-A	Method Blank	85.3	99.6	106	96.5	105	103	106	106

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)
320-128916-A-10-A MSD	Matrix Spike Duplicate	93.0 *3	85.9 *3	102 *3	104 *3	93.8 *3	92.1 *3	121 *3	98.3 *3
320-128916-B-10-B MS	Matrix Spike	78.9 *3	71.4 *3	102 *3	97.1 *3	104 *3	98.5 *3	120 *3	112 *3
380-192585-1	BWS2253-H1-AQ	84.1	70.7	96.5	102	97.2	93.2	67.7	90.7
LCS 320-898070/3-A	Lab Control Sample	81.9	75.2	98.1	101	99.9	90.0	68.4	94.1
LCS 320-898070/3-A - RA	Lab Control Sample								
LLCS 320-898070/2-A	Lab Control Sample	96.1	71.3	96.6	107	103	92.1	69.4	88.9
MB 320-898070/1-A	Method Blank	106	94.3	96.8	108	107	102	71.5	99.0

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)
320-128916-A-10-A MSD	Matrix Spike Duplicate	128 *3	113 *3	117 *3	92.1 *3	90.5 *3	78.0 *3	86.1 *3	88.3 *3
320-128916-B-10-B MS	Matrix Spike	147 *3	139 *3	125 *3	100 *3	78.7 *3	61.2 *3	90.2 *3	90.7 *3
380-192585-1	BWS2253-H1-AQ	112	89.9	80.5	94.8	92.8	82.6	86.8	84.5
LCS 320-898070/3-A	Lab Control Sample	96.8	79.9	102	106	96.2	81.2	83.2	77.6
LCS 320-898070/3-A - RA	Lab Control Sample								
LLCS 320-898070/2-A	Lab Control Sample	112	103	93.6	102	97.7	82.6	86.9	86.1
MB 320-898070/1-A	Method Blank	107	103	106	118	107	94.5	98.4	92.9

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

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Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: MB 320-898070/1-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 898070

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorotridecanoic acid (PFTriDA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		01/21/26 20:11	01/22/26 18:07	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<10		10	ng/L		01/21/26 20:11	01/22/26 18:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		01/21/26 20:11	01/22/26 18:07	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: MB 320-898070/1-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 898070

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		01/21/26 20:11	01/22/26 18:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		01/21/26 20:11	01/22/26 18:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		01/21/26 20:11	01/22/26 18:07	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		01/21/26 20:11	01/22/26 18:07	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	85.3		5 - 130	01/21/26 20:11	01/22/26 18:07	1
13C5 PFPeA	99.6		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C5 PFHxA	106		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C4 PFHpA	96.5		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C8 PFOA	105		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C9 PFNA	103		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C6 PFDA	106		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C7 PFUnA	106		30 - 130	01/21/26 20:11	01/22/26 18:07	1
13C2 PFDoA	106		10 - 130	01/21/26 20:11	01/22/26 18:07	1
13C2 PFTeDA	94.3		10 - 130	01/21/26 20:11	01/22/26 18:07	1
13C3 PFBS	96.8		40 - 135	01/21/26 20:11	01/22/26 18:07	1
13C3 PFHxS	108		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C8 PFOS	107		40 - 130	01/21/26 20:11	01/22/26 18:07	1
13C8 PFOSA	102		40 - 130	01/21/26 20:11	01/22/26 18:07	1
d3-NMeFOSAA	71.5		40 - 170	01/21/26 20:11	01/22/26 18:07	1
d5-NEtFOSAA	99.0		25 - 135	01/21/26 20:11	01/22/26 18:07	1
13C2 4:2 FTS	107		40 - 200	01/21/26 20:11	01/22/26 18:07	1
13C2 6:2 FTS	103		40 - 200	01/21/26 20:11	01/22/26 18:07	1
13C2 8:2 FTS	106		40 - 300	01/21/26 20:11	01/22/26 18:07	1
13C3 HFPO-DA	118		40 - 130	01/21/26 20:11	01/22/26 18:07	1
d7-N-MeFOSE-M	107		10 - 130	01/21/26 20:11	01/22/26 18:07	1
d9-N-EtFOSE-M	94.5		10 - 130	01/21/26 20:11	01/22/26 18:07	1
d5-NEtPFOSA	98.4		10 - 130	01/21/26 20:11	01/22/26 18:07	1
d3-NMePFOSA	92.9		10 - 130	01/21/26 20:11	01/22/26 18:07	1

Lab Sample ID: LCS 320-898070/3-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	94.0		ng/L		117	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	49.4		ng/L		124	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.4		ng/L		98	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	46.3		ng/L		116	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	50.4		ng/L		126	70 - 150
Perfluorononanoic acid (PFNA)	40.0	48.6		ng/L		121	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	40.5		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: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: LCS 320-898070/3-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	47.2		ng/L		118	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	47.6		ng/L		119	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	55.3		ng/L		138	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	47.9		ng/L		120	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	40.3		ng/L		113	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	40.3		ng/L		107	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	41.3		ng/L		113	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	47.4		ng/L		124	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	42.2		ng/L		114	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	41.3		ng/L		107	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	43.3		ng/L		112	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	42.5		ng/L		110	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	87.3		ng/L		116	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	116		ng/L		152	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	83.5		ng/L		109	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	47.5		ng/L		119	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	48.1		ng/L		120	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	44.9		ng/L		112	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	44.5		ng/L		111	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	49.0		ng/L		123	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	209		ng/L		104	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	207		ng/L		103	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	34.3		ng/L		114	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.2		ng/L		101	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	45.8		ng/L		114	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	49.2		ng/L		123	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	52.5		ng/L		131	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	48.4		ng/L		130	70 - 155

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: LCS 320-898070/3-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	41.3		ng/L		110	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	40.1		ng/L		112	70 - 140
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	231		ng/L		115	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	214		ng/L		107	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	86.8		5 - 130
13C5 PFPeA	98.1		40 - 130
13C5 PFHxA	97.1		40 - 130
13C4 PFHpA	100		40 - 130
13C8 PFOA	96.5		40 - 130
13C9 PFNA	113		40 - 130
13C6 PFDA	97.8		40 - 130
13C7 PFUnA	92.7		30 - 130
13C2 PFDoA	81.9		10 - 130
13C2 PFTeDA	75.2		10 - 130
13C3 PFBS	98.1		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	99.9		40 - 130
13C8 PFOSA	90.0		40 - 130
d3-NMeFOSAA	68.4		40 - 170
d5-NEtFOSAA	94.1		25 - 135
13C2 4:2 FTS	96.8		40 - 200
13C2 6:2 FTS	79.9		40 - 200
13C2 8:2 FTS	102		40 - 300
13C3 HFPO-DA	106		40 - 130
d7-N-MeFOSE-M	96.2		10 - 130
d9-N-EtFOSE-M	81.2		10 - 130
d5-NEtPFOSA	83.2		10 - 130
d3-NMePFOSA	77.6		10 - 130

Lab Sample ID: LLCS 320-898070/2-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	9.80		ng/L		123	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.60		ng/L		115	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.81		ng/L		120	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.26		ng/L		107	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.62		ng/L		116	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.52		ng/L		113	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	3.74		ng/L		93	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.43		ng/L		111	70 - 145

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: LLCS 320-898070/2-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	4.00	4.49		ng/L		112	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.95		ng/L		124	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.80		ng/L		120	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.99		ng/L		112	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	3.81		ng/L		101	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	3.78		ng/L		104	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.63		ng/L		121	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.92		ng/L		105	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.37		ng/L		88	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.59		ng/L		93	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.59		ng/L		92	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.59		ng/L		101	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	9.27		ng/L		122	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.19		ng/L		107	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.34		ng/L		109	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.16		ng/L		104	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.21		ng/L		105	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.15		ng/L		104	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.69		ng/L		117	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	19.8		ng/L		99	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	19.2		ng/L		96	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.16		ng/L		105	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.87		ng/L		102	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.29		ng/L		107	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.20		ng/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.50		ng/L		112	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	4.25		ng/L		114	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.52		ng/L		93	55 - 160

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: LLCS 320-898070/2-A

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	3.57	4.29		ng/L		120	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	9.80		ng/L		122	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	24.6		ng/L		123	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	21.9		ng/L		109	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	85.8		5 - 130
13C5 PFPeA	100		40 - 130
13C5 PFHxA	84.6		40 - 130
13C4 PFHpA	99.7		40 - 130
13C8 PFOA	98.5		40 - 130
13C9 PFNA	94.1		40 - 130
13C6 PFDA	96.8		40 - 130
13C7 PFUnA	94.3		30 - 130
13C2 PFDoA	96.1		10 - 130
13C2 PFTeDA	71.3		10 - 130
13C3 PFBS	96.6		40 - 135
13C3 PFHxS	107		40 - 130
13C8 PFOS	103		40 - 130
13C8 PFOSA	92.1		40 - 130
d3-NMeFOSAA	69.4		40 - 170
d5-NEtFOSAA	88.9		25 - 135
13C2 4:2 FTS	112		40 - 200
13C2 6:2 FTS	103		40 - 200
13C2 8:2 FTS	93.6		40 - 300
13C3 HFPO-DA	102		40 - 130
d7-N-MeFOSE-M	97.7		10 - 130
d9-N-EtFOSE-M	82.6		10 - 130
d5-NEtPFOSA	86.9		10 - 130
d3-NMePFOSA	86.1		10 - 130

Lab Sample ID: 320-128916-A-10-A MSD

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	340		81.1	439	4	ng/L		117	70 - 140	1	30
Perfluoropentanoic acid (PFPeA)	810		40.6	899	4	ng/L		211	65 - 135	9	30
Perfluorohexanoic acid (PFHxA)	1100		40.6	1260	4	ng/L		488	70 - 145	3	30
Perfluoroheptanoic acid (PFHpA)	190		40.6	214	4	ng/L		54	70 - 150	6	30
Perfluorooctanoic acid (PFOA)	320		40.6	287	4	ng/L		-69	70 - 150	19	30
Perfluorononanoic acid (PFNA)	<18		40.6	55.4		ng/L		125	70 - 150	5	30
Perfluorodecanoic acid (PFDA)	<18		40.6	45.5		ng/L		112	70 - 140	3	30
Perfluoroundecanoic acid (PFUnA)	<18		40.6	47.2		ng/L		116	70 - 145	12	30

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: 320-128916-A-10-A MSD

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanoic acid (PFDoA)	<18		40.6	43.4		ng/L		107	70 - 140	1	30
Perfluorotridecanoic acid (PFTrDA)	<18		40.6	48.4		ng/L		119	65 - 140	15	30
Perfluorotetradecanoic acid (PFTeDA)	<18		40.6	44.6		ng/L		110	60 - 140	7	30
Perfluorobutanesulfonic acid (PFBS)	1500		36.0	1860	4	ng/L		1071	60 - 145	5	30
Perfluoropentanesulfonic acid (PFPeS)	1300		38.1	1680	4	ng/L		942	65 - 140	8	30
Perfluorohexanesulfonic acid (PFHxS)	7400	E	37.0	7390	E 4	ng/L		85	65 - 145	3	30
Perfluoroheptanesulfonic acid (PFHpS)	81	F1	38.7	151	F1	ng/L		180	70 - 150	15	30
Perfluorooctanesulfonic acid (PFOS)	950		37.7	1440	4	ng/L		1310	55 - 150	7	30
Perfluorononanesulfonic acid (PFNS)	<18		39.0	44.9		ng/L		115	65 - 145	25	30
Perfluorodecanesulfonic acid (PFDS)	<18		39.1	41.6		ng/L		106	60 - 145	11	30
Perfluorododecanesulfonic acid (PFDoS)	<18	F2	39.3	43.5	F2	ng/L		111	50 - 145	37	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<36		76.1	75.9		ng/L		100	70 - 145	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<36		77.2	93.7		ng/L		121	65 - 155	28	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<36		77.9	86.9		ng/L		112	60 - 150	15	30
Perfluorooctanesulfonamide (PFOSA)	<18		40.6	46.2		ng/L		114	70 - 145	11	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	<18		40.6	42.7		ng/L		105	60 - 150	4	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<18		40.6	43.7		ng/L		108	65 - 145	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<18		40.6	43.6		ng/L		108	50 - 140	13	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<18		40.6	47.7		ng/L		118	70 - 145	15	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<91		203	206		ng/L		102	70 - 145	9	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<91		203	214		ng/L		106	70 - 135	6	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<14		30.4	30.1		ng/L		99	70 - 140	7	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<18		38.4	39.5		ng/L		103	65 - 145	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<18		40.6	45.7		ng/L		113	60 - 150	11	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<18		40.6	34.5		ng/L		85	50 - 150	16	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<18		40.6	50.4		ng/L		124	55 - 140	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<18		37.9	49.4		ng/L		131	70 - 155	29	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<18		38.3	44.4		ng/L		116	55 - 160	28	30

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: 320-128916-A-10-A MSD

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<18		36.2	37.6		ng/L		104	70 - 140	9	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<36	F1	81.1	96.0		ng/L		118	65 - 130	4	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<91		203	209		ng/L		103	70 - 135	3	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<91		203	192		ng/L		95	50 - 145	5	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	91.4	*3	5 - 130
13C5 PFPeA	89.8	*3	40 - 130
13C5 PFHxA	96.1	*3	40 - 130
13C4 PFHpA	85.8	*3	40 - 130
13C8 PFOA	106	*3	40 - 130
13C9 PFNA	95.8	*3	40 - 130
13C6 PFDA	105	*3	40 - 130
13C7 PFUnA	95.7	*3	30 - 130
13C2 PFDoA	93.0	*3	10 - 130
13C2 PFTeDA	85.9	*3	10 - 130
13C3 PFBS	102	*3	40 - 135
13C3 PFHxS	104	*3	40 - 130
13C8 PFOS	93.8	*3	40 - 130
13C8 PFOSA	92.1	*3	40 - 130
d3-NMeFOSAA	121	*3	40 - 170
d5-NEtFOSAA	98.3	*3	25 - 135
13C2 4:2 FTS	128	*3	40 - 200
13C2 6:2 FTS	113	*3	40 - 200
13C2 8:2 FTS	117	*3	40 - 300
13C3 HFPO-DA	92.1	*3	40 - 130
d7-N-MeFOSE-M	90.5	*3	10 - 130
d9-N-EtFOSE-M	78.0	*3	10 - 130
d5-NEtPFOSA	86.1	*3	10 - 130
d3-NMePFOSA	88.3	*3	10 - 130

Lab Sample ID: 320-128916-B-10-B MS

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	340		73.5	435	4	ng/L		123	70 - 140
Perfluoropentanoic acid (PFPeA)	810		36.8	821	4	ng/L		22	65 - 135
Perfluorohexanoic acid (PFHxA)	1100		36.8	1220	4	ng/L		432	70 - 145
Perfluoroheptanoic acid (PFHpA)	190		36.8	202	4	ng/L		25	70 - 150
Perfluorooctanoic acid (PFOA)	320		36.8	347	4	ng/L		86	70 - 150
Perfluorononanoic acid (PFNA)	<18		36.8	52.5		ng/L		130	70 - 150
Perfluorodecanoic acid (PFDA)	<18		36.8	44.0		ng/L		120	70 - 140
Perfluoroundecanoic acid (PFUnA)	<18		36.8	41.6		ng/L		113	70 - 145

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: 320-128916-B-10-B MS

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	<18		36.8	42.8		ng/L		116	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	<18		36.8	41.5		ng/L		113	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	<18		36.8	41.4		ng/L		113	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1500		32.6	1770	4	ng/L		908	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	1300		34.6	1820	4	ng/L		1459	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	7400	E	33.5	7610	E 4	ng/L		758	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	81	F1	35.1	129		ng/L		137	70 - 150
Perfluorooctanesulfonic acid (PFOS)	950		34.2	1350	4	ng/L		1177	55 - 150
Perfluorononanesulfonic acid (PFNS)	<18		35.4	35.1		ng/L		99	65 - 145
Perfluorodecanesulfonic acid (PFDS)	<18		35.4	37.1		ng/L		105	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	<18	F2	35.7	29.8		ng/L		83	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<36		69.0	74.9		ng/L		109	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<36		70.0	70.7		ng/L		101	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<36		70.6	74.4		ng/L		105	60 - 150
Perfluorooctanesulfonamide (PFOSA)	<18		36.8	41.4		ng/L		113	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	<18		36.8	40.9		ng/L		111	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<18		36.8	39.1		ng/L		106	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<18		36.8	38.3		ng/L		104	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<18		36.8	41.1		ng/L		112	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<91		184	188		ng/L		102	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<91		184	202		ng/L		110	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<14		27.6	28.0		ng/L		102	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<18		34.8	40.1		ng/L		115	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	<18		36.8	51.2		ng/L		139	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<18		36.8	40.7		ng/L		111	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	<18		36.8	46.9		ng/L		128	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<18		34.3	37.0		ng/L		108	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<18		34.7	33.4		ng/L		96	55 - 160

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QC Sample Results

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

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

Lab Sample ID: 320-128916-B-10-B MS

Matrix: Water

Analysis Batch: 898244

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<18		32.8	34.5		ng/L		105	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<36	F1	73.5	100	F1	ng/L		136	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<91		184	202		ng/L		110	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<91		184	202		ng/L		110	50 - 145
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
13C4 PFBA	94.9	*3	5 - 130						
13C5 PFPeA	97.0	*3	40 - 130						
13C5 PFHxA	93.6	*3	40 - 130						
13C4 PFHpA	98.3	*3	40 - 130						
13C8 PFOA	88.8	*3	40 - 130						
13C9 PFNA	88.3	*3	40 - 130						
13C6 PFDA	95.6	*3	40 - 130						
13C7 PFUnA	91.0	*3	30 - 130						
13C2 PFDoA	78.9	*3	10 - 130						
13C2 PFTeDA	71.4	*3	10 - 130						
13C3 PFBS	102	*3	40 - 135						
13C3 PFHxS	97.1	*3	40 - 130						
13C8 PFOS	104	*3	40 - 130						
13C8 PFOSA	98.5	*3	40 - 130						
d3-NMeFOSAA	120	*3	40 - 170						
d5-NEtFOSAA	112	*3	25 - 135						
13C2 4:2 FTS	147	*3	40 - 200						
13C2 6:2 FTS	139	*3	40 - 200						
13C2 8:2 FTS	125	*3	40 - 300						
13C3 HFPO-DA	100	*3	40 - 130						
d7-N-MeFOSE-M	78.7	*3	10 - 130						
d9-N-EtFOSE-M	61.2	*3	10 - 130						
d5-NEtPFOSA	90.2	*3	10 - 130						
d3-NMePFOSA	90.7	*3	10 - 130						

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

Lab Sample ID: LCS 320-898070/3-A

Matrix: Water

Analysis Batch: 898333

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 898070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA) - RA	80.0	101		ng/L		126	65 - 130
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C5 PFPeA - RA	101		40 - 130				

QC Association Summary

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

LCMS

Prep Batch: 898070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192585-1	BWS2253-H1-AQ	Total/NA	Water	1633	
MB 320-898070/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-898070/3-A	Lab Control Sample	Total/NA	Water	1633	
LCS 320-898070/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-898070/2-A	Lab Control Sample	Total/NA	Water	1633	
320-128916-A-10-A MSD	Matrix Spike Duplicate	Total/NA	Water	1633	
320-128916-B-10-B MS	Matrix Spike	Total/NA	Water	1633	

Analysis Batch: 898244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-192585-1	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	898070
MB 320-898070/1-A	Method Blank	Total/NA	Water	QSM B-24	898070
LCS 320-898070/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	898070
LLCS 320-898070/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	898070
320-128916-A-10-A MSD	Matrix Spike Duplicate	Total/NA	Water	QSM B-24	898070
320-128916-B-10-B MS	Matrix Spike	Total/NA	Water	QSM B-24	898070

Analysis Batch: 898333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-898070/3-A - RA	Lab Control Sample	Total/NA	Water	QSM B-24	898070

Lab Chronicle

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

Job ID: 380-192585-1
SDG: Site H PFAS 1633

Client Sample ID: BWS2253-H1-AQ
Date Collected: 01/14/26 11:20
Date Received: 01/15/26 09:45

Lab Sample ID: 380-192585-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			898070	JJN	EET SAC	01/21/26 20:11
Total/NA	Analysis	QSM B-24		1	898244	S1M	EET SAC	01/22/26 23:20

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 380-192585-1
SDG: Site H 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	01-31-26
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-26
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	01-29-26
Minnesota	NELAP	2749448	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	01-29-26
Oregon	NELAP	4040	01-29-26
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-26
Virginia	NELAP	460278	03-14-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	02-01-26
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: 380-192585-1
SDG: Site H 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: 380-192585-1
SDG: Site H PFAS 1633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-192585-1	BWS2253-H1-AQ	Water	01/14/26 11:20	01/15/26 09:45	Hawaii

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Chain of Custody Record

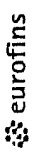


Environment Testing
America

Client Information		Sampler H. Bentley/E. Kakone		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		Page: Page 1 of 1	
City & County of Honolulu		PWSID:		Analysis Requested		Job #:			
Address: 630 South Beretania Street		Due Date Requested:		Field Filled Sample (Yes or No)		Total Number of Containers		Preservation Codes:	
City: Honolulu		TAT Requested (days): Standard		Matrix (Liquid, Solid, Other)		Special Instructions/Note: x = testing comes from another container.		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaOH F - Na2SO3 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
State, Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Sample Type (C=Comp, G=Grab)					
Phone: 808-748-5066(Tel)		PO #: C20525101 exp 05312023		Sample Time					
Email: ekawata@hbws.org		WO #:		Sample Date					
Project Name: HRS-340E - RED-HILL - INTERA		Project #: 38000861		Preservation Code					
Site: Site H		SSOW#:		Matrix (Liquid, Solid, Other)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (Liquid, Solid, Other)	
BWS2253-H1-AQ		1/14/20		11:20		G		Water	
BWS2253-H1-B						G		Water	
BWS2253-H1-FB						G		Water	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Polson B ☐ Unknown ☐ Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment FEDEX Priority Overnight			
Relinquished by: <i>Erwin Kawata</i>		Date/Time: 1/14/20, 1300		Company: INTERA Inc		Received by: <i>DSM</i>		Date/Time: 01/15/20, 0945	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seal No.: <i>Seal</i>		Custody Seal Intact: <i>Yes</i>		Cooler Temperature(s) °C and Other Remarks: 11 °C					

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	Lab P/N:	Carrier Tracking No(s):	OCC No:	
Client Contact		N/A	Lopez, Maria	N/A	380-294869.1	
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:	
Company		N/A	Maria.Lopez@et.eurofins.com	Hawaii	Page 1 of 1	
Eurofins Environment Testing Northern Ca		Accreditations Required (See note):		Job #:	Job #:	
Address:		State - Hawaii		380-192585-1	Preservation Codes:	
880 Riverside Parkway,		Due Date Requested:		-		
City:		1/28/2026				
State, Zip:		TAT Requested (days):		Analysis Requested		
CA, 95605		N/A				
Phone:		PO #:	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	
916-373-5600(Tel) 916-372-1059(Fax)		N/A				
Email:		N/A				
N/A		N/A				
Project Name:		Project #:	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Wastewater, A=Air)
INTERA - Red-Hill-Incident		38000861	1/14/26	11:20	G	Water
Site:		SSOW#:	Preservation Code			
Honolulu BWS Sites		N/A				
Sample Identification - Client ID (Lab ID)						
BWS2253-H1-AQ (380-192585-1)						
						
380-192585 Chain of Custody						
Special Instructions/Note:						
Other						
N/A						

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

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company: 1/15/26 09:45 EE-7300

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Relinquished by: Date/Time: Company: Received by: Date/Time: Company:

Custody Seal No.:  Seal

Cooler Temperature(s) °C and Other Remarks: 1.1 °C

Ver 10/10/2024

Ver. 01/16/2019

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192585-1
SDG Number: Site H PFAS 1633

Login Number: 192585

List Number: 1

Creator: Hernandez, Orlando

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
Samples were received on ice.		
Cooler(s) Temperature is acceptable.		
Cooler(s) Temperature is recorded.		
COC is present.		
COC is filled out in ink and is legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
CIO4 headspace requirement met (>50% for CA, >30% for other states).		
Samples do not require splitting or compositing.		
Container provided by EEA		

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192585-1
SDG Number: Site H PFAS 1633

Login Number: 192585

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 01/15/26 05:22 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	Seal
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	1.1c
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	Received project as a subcontract.
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	