

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site D2 PFAS 1633

JOB NUMBER

380-215120-1

Eurofins Pomona

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

Qualifiers

LCMS

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-215120-1

Job ID: 380-215120-1

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Job Narrative 380-215120-1

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 5/20/2026 9:50 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 0.7°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 low level continuing calibration verification (CCVL) and the continuing calibration verification (CCV) associated with batch 320-918831 recovered above the upper control limit for one or more of the following isotope dilution analyte (IDA): 13C2 4:2 FTS, 13C2 6:2 FTS and 13C2 8:2 FTS. The associated target analytes, 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS), 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) and 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS), were within control limits in the CCV. The client samples were in control for the affected IDA. The method blank associated with this CCV was non-detect, the low level laboratory control sample/laboratory control sample/laboratory control sample duplicate recoveries were in control for the associated target analyte; therefore, the data have been reported. The associated samples are impacted: BWS2254-D2-AQ (380-215120-1), (CCV 320-918831/16), (CCV 320-918831/24), (CCV 320-918831/3), (CCVL 320-918831/2), (LCS 320-918734/3-A), (LCSD 320-918734/4-A), (LLCS 320-918734/2-A) and (MB 320-918734/1-A).

Method QSM B-24: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: (LCS 320-918734/3-A). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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: 380-215120-1
SDG: Site D2 PFAS 1633

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-215120-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	5.8		1.5	ng/L	1		QSM B-24	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - RA	11		1.5	ng/L	1		QSM B-24	Total/NA

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: 380-215120-1
SDG: Site D2 PFAS 1633

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-215120-1

Date Collected: 05/19/26 11:00

Matrix: Water

Date Received: 05/20/26 09:50

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		05/26/26 20:13	05/28/26 00:51	1
Perfluoropentanoic acid (PFPeA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorohexanoic acid (PFHxA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoroheptanoic acid (PFHpA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorooctanoic acid (PFOA)	5.8		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorononanoic acid (PFNA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorodecanoic acid (PFDA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoroundecanoic acid (PFUnA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorododecanoic acid (PFDoA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorotridecanoic acid (PFTTrDA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorotetradecanoic acid (PFTeDA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorobutanesulfonic acid (PFBS)	<3.0		3.0	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoropentanesulfonic acid (PFPeS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorooctanesulfonic acid (PFOS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorononanesulfonic acid (PFNS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorodecanesulfonic acid (PFDS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorododecanesulfonic acid (PFDoS)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<3.0		3.0	ng/L		05/26/26 20:13	05/28/26 00:51	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<3.0		3.0	ng/L		05/26/26 20:13	05/28/26 00:51	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<3.0		3.0	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluorooctanesulfonamide (PFOSA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.6		7.6	ng/L		05/26/26 20:13	05/28/26 00:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.1	ng/L		05/26/26 20:13	05/28/26 00:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.5	*+	1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.5		1.5	ng/L		05/26/26 20:13	05/28/26 00:51	1

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Client Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-215120-1

Date Collected: 05/19/26 11:00

Matrix: Water

Date Received: 05/20/26 09:50

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.0		3.0	ng/L		05/26/26 20:13	05/28/26 00:51	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.6		7.6	ng/L		05/26/26 20:13	05/28/26 00:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.6		7.6	ng/L		05/26/26 20:13	05/28/26 00:51	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	59.7		5 - 130			05/26/26 20:13	05/28/26 00:51	1
13C5 PFPeA	94.6		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C5 PFHxA	82.6		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C4 PFHpA	75.0		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C8 PFOA	89.8		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C9 PFNA	96.3		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C6 PFDA	84.9		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C7 PFUnA	84.1		30 - 130			05/26/26 20:13	05/28/26 00:51	1
13C2 PFDoA	76.6		10 - 130			05/26/26 20:13	05/28/26 00:51	1
13C2 PFTeDA	102		10 - 130			05/26/26 20:13	05/28/26 00:51	1
13C6 PFTTrDA	80.1		20 - 150			05/26/26 20:13	05/28/26 00:51	1
13C3 PFBS	122		40 - 135			05/26/26 20:13	05/28/26 00:51	1
13C3 PFHxS	93.8		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C8 PFOS	94.4		40 - 130			05/26/26 20:13	05/28/26 00:51	1
13C8 PFOSA	94.7		40 - 130			05/26/26 20:13	05/28/26 00:51	1
d3-NMeFOSAA	98.7		40 - 170			05/26/26 20:13	05/28/26 00:51	1
d5-NEtFOSAA	89.8		25 - 135			05/26/26 20:13	05/28/26 00:51	1
13C2 4:2 FTS	134		40 - 200			05/26/26 20:13	05/28/26 00:51	1
13C2 6:2 FTS	113		40 - 200			05/26/26 20:13	05/28/26 00:51	1
13C2 8:2 FTS	116		40 - 300			05/26/26 20:13	05/28/26 00:51	1
13C3 HFPO-DA	75.7		40 - 130			05/26/26 20:13	05/28/26 00:51	1
d7-N-MeFOSE-M	67.6		10 - 130			05/26/26 20:13	05/28/26 00:51	1
d5-NEtPFOSA	73.0		10 - 130			05/26/26 20:13	05/28/26 00:51	1
d3-NMePFOSA	77.0		10 - 130			05/26/26 20:13	05/28/26 00:51	1
13C3-3:3 FTCA	107		20 - 150			05/26/26 20:13	05/28/26 00:51	1
13C3-5:3 FTCA	78.8		20 - 150			05/26/26 20:13	05/28/26 00:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	11		1.5	ng/L		05/26/26 20:13	05/29/26 13:31	1
N-ethylperfluorooctane sulfonamidoethanol (NETFOSE)	<7.6		7.6	ng/L		05/26/26 20:13	05/29/26 13:31	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 PFHxS	95.7		40 - 130			05/26/26 20:13	05/29/26 13:31	1
d9-N-EtFOSE-M	79.4		10 - 130			05/26/26 20:13	05/29/26 13:31	1

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Action Limit Summary

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-215120-1

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)	5.8		ng/L	4	1.5	QSM B-24	Total/NA
Perfluorononanoic acid (PFNA)	<1.5		ng/L	10	1.5	QSM B-24	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<1.5		ng/L	4	1.5	QSM B-24	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		ng/L	10	1.1	QSM B-24	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - RA	11		ng/L	10	1.5	QSM B-24	Total/NA

Isotope Dilution Summary

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

Job ID: 380-215120-1
SDG: Site D2 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)
380-215120-1	BWS2254-D2-AQ	59.7	94.6	82.6	75.0	89.8	96.3	84.9	84.1
LCS 320-918734/3-A	Lab Control Sample	84.2	116	86.7	69.4	96.8	86.7	90.1	79.0
LCSD 320-918734/4-A	Lab Control Sample Dup	70.8	105	72.0	70.2	90.8	83.5	74.9	85.1
LLCS 320-918734/2-A	Lab Control Sample	68.3	120	86.0	84.6	93.1	88.9	86.1	74.9
MB 320-918734/1-A	Method Blank	83.1	105	92.7	72.3	90.0	91.5	86.5	85.0

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C6PFTTrDA (20-150)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)
380-215120-1	BWS2254-D2-AQ	76.6	102	80.1	122	93.8	94.4	94.7	98.7
LCS 320-918734/3-A	Lab Control Sample	69.1	86.9	80.5	136 *5+	92.0	89.4	83.5	94.0
LCSD 320-918734/4-A	Lab Control Sample Dup	65.5	89.4	73.8	117	93.8	86.5	84.4	85.6
LLCS 320-918734/2-A	Lab Control Sample	69.6	88.5	67.9	131	104	92.8	84.4	85.1
MB 320-918734/1-A	Method Blank	69.1	84.7	74.8	115	89.9	92.2	78.4	85.5

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS (25-135)	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
380-215120-1	BWS2254-D2-AQ	89.8	134	113	116	75.7	67.6	73.0	77.0
LCS 320-918734/3-A	Lab Control Sample	82.9	115	110	121	80.9	58.5	62.4	67.0
LCSD 320-918734/4-A	Lab Control Sample Dup	78.2	127	119	122	75.4	60.3	58.4	70.5
LLCS 320-918734/2-A	Lab Control Sample	80.3	133	109	133	88.5	56.1	58.4	64.4
MB 320-918734/1-A	Method Blank	71.6	119	108	116	81.7	52.3	52.4	59.9

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3-3:3 FTC (20-150)	3-5:3 FTC (20-150)
380-215120-1	BWS2254-D2-AQ	107	78.8
LCS 320-918734/3-A	Lab Control Sample	82.5	88.0
LCSD 320-918734/4-A	Lab Control Sample Dup	81.6	89.5
LLCS 320-918734/2-A	Lab Control Sample	98.2	98.3
MB 320-918734/1-A	Method Blank	89.5	85.1

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
C6PFTTrDA = 13C6 PFTTrDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS

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Isotope Dilution Summary

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA
C3-3:3 FTCA = 13C3-3:3 FTCA
C3-5:3 FTCA = 13C3-5:3 FTCA

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	C3PFHS (40-130)	NEFM (10-130)
380-215120-1 - RA	BWS2254-D2-AQ	95.7	79.4
LCS 320-918734/3-A - RA	Lab Control Sample	88.0	65.9
LCSD 320-918734/4-A - RA	Lab Control Sample Dup	89.3	62.0
LLCS 320-918734/2-A - RA	Lab Control Sample	87.0	68.9
MB 320-918734/1-A - RA	Method Blank	86.5	63.1

Surrogate Legend

C3PFHS = 13C3 PFHxS
NEFM = d9-N-EtFOSE-M

QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: MB 320-918734/1-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 918734

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorobutanesulfonic acid (PFBS)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		05/26/26 20:13	05/27/26 19:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		05/26/26 20:13	05/27/26 19:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: MB 320-918734/1-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 918734

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		05/26/26 20:13	05/27/26 19:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		05/26/26 20:13	05/27/26 19:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		05/26/26 20:13	05/27/26 19:55	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	83.1		5 - 130	05/26/26 20:13	05/27/26 19:55	1
13C5 PFPeA	105		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C5 PFHxA	92.7		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C4 PFHpA	72.3		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C8 PFOA	90.0		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C9 PFNA	91.5		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C6 PFDA	86.5		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C7 PFUnA	85.0		30 - 130	05/26/26 20:13	05/27/26 19:55	1
13C2 PFDoA	69.1		10 - 130	05/26/26 20:13	05/27/26 19:55	1
13C2 PFTeDA	84.7		10 - 130	05/26/26 20:13	05/27/26 19:55	1
13C6 PFTtDA	74.8		20 - 150	05/26/26 20:13	05/27/26 19:55	1
13C3 PFBS	115		40 - 135	05/26/26 20:13	05/27/26 19:55	1
13C3 PFHxS	89.9		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C8 PFOS	92.2		40 - 130	05/26/26 20:13	05/27/26 19:55	1
13C8 PFOSA	78.4		40 - 130	05/26/26 20:13	05/27/26 19:55	1
d3-NMeFOSAA	85.5		40 - 170	05/26/26 20:13	05/27/26 19:55	1
d5-NEtFOSAA	71.6		25 - 135	05/26/26 20:13	05/27/26 19:55	1
13C2 4:2 FTS	119		40 - 200	05/26/26 20:13	05/27/26 19:55	1
13C2 6:2 FTS	108		40 - 200	05/26/26 20:13	05/27/26 19:55	1
13C2 8:2 FTS	116		40 - 300	05/26/26 20:13	05/27/26 19:55	1
13C3 HFPO-DA	81.7		40 - 130	05/26/26 20:13	05/27/26 19:55	1
d7-N-MeFOSE-M	52.3		10 - 130	05/26/26 20:13	05/27/26 19:55	1
d5-NEtPFOSA	52.4		10 - 130	05/26/26 20:13	05/27/26 19:55	1
d3-NMePFOSA	59.9		10 - 130	05/26/26 20:13	05/27/26 19:55	1
13C3-3:3 FTCA	89.5		20 - 150	05/26/26 20:13	05/27/26 19:55	1
13C3-5:3 FTCA	85.1		20 - 150	05/26/26 20:13	05/27/26 19:55	1

Lab Sample ID: LCS 320-918734/3-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	79.9		ng/L		100	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	33.7		ng/L		84	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.9		ng/L		107	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	44.2		ng/L		110	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	40.3		ng/L		101	70 - 150
Perfluorononanoic acid (PFNA)	40.0	41.6		ng/L		104	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	42.2		ng/L		105	70 - 140

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LCS 320-918734/3-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	43.9		ng/L		110	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	44.5		ng/L		111	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	40.2		ng/L		100	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	33.9		ng/L		85	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	30.9		ng/L		87	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	46.8		ng/L		124	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	38.2	39.1		ng/L		102	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	38.8		ng/L		104	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	33.5		ng/L		87	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	30.9		ng/L		80	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.1		ng/L		96	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	91.2		ng/L		122	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	80.8		ng/L		106	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	89.0		ng/L		116	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	42.1		ng/L		105	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	40.3		ng/L		101	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	41.2		ng/L		103	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	36.5		ng/L		91	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.0		ng/L		110	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	205		ng/L		102	70 - 145
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	30.7		ng/L		102	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.4		ng/L		94	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	31.8		ng/L		79	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	55.1		ng/L		138	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	30.5		ng/L		76	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	38.3		ng/L		103	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	31.8		ng/L		84	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	35.0		ng/L		98	70 - 140

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LCS 320-918734/3-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	83.3		ng/L		104	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	201		ng/L		100	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	181		ng/L		90	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	84.2		5 - 130
13C5 PFPeA	116		40 - 130
13C5 PFHxA	86.7		40 - 130
13C4 PFHpA	69.4		40 - 130
13C8 PFOA	96.8		40 - 130
13C9 PFNA	86.7		40 - 130
13C6 PFDA	90.1		40 - 130
13C7 PFUnA	79.0		30 - 130
13C2 PFDoA	69.1		10 - 130
13C2 PFTeDA	86.9		10 - 130
13C6 PFTTrDA	80.5		20 - 150
13C3 PFBS	136	*5+	40 - 135
13C3 PFHxS	92.0		40 - 130
13C8 PFOS	89.4		40 - 130
13C8 PFOSA	83.5		40 - 130
d3-NMeFOSAA	94.0		40 - 170
d5-NEtFOSAA	82.9		25 - 135
13C2 4:2 FTS	115		40 - 200
13C2 6:2 FTS	110		40 - 200
13C2 8:2 FTS	121		40 - 300
13C3 HFPO-DA	80.9		40 - 130
d7-N-MeFOSE-M	58.5		10 - 130
d5-NEtPFOSA	62.4		10 - 130
d3-NMePFOSA	67.0		10 - 130
13C3-3:3 FTCA	82.5		20 - 150
13C3-5:3 FTCA	88.0		20 - 150

Lab Sample ID: LCSD 320-918734/4-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	84.9		ng/L		106	70 - 140	6	30
Perfluoropentanoic acid (PFPeA)	40.0	35.0		ng/L		87	65 - 135	4	30
Perfluorohexanoic acid (PFHxA)	40.0	53.4		ng/L		133	70 - 145	22	30
Perfluoroheptanoic acid (PFHpA)	40.0	44.9		ng/L		112	70 - 150	2	30
Perfluorooctanoic acid (PFOA)	40.0	40.9		ng/L		102	70 - 150	1	30
Perfluorononanoic acid (PFNA)	40.0	50.2		ng/L		125	70 - 150	19	30
Perfluorodecanoic acid (PFDA)	40.0	46.5		ng/L		116	70 - 140	10	30
Perfluoroundecanoic acid (PFUnA)	40.0	37.5		ng/L		94	70 - 145	16	30

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LCSD 320-918734/4-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorododecanoic acid (PFDoA)	40.0	43.5		ng/L		109	70 - 140	2	30
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.0		ng/L		100	65 - 140	0	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	35.4		ng/L		88	60 - 140	4	30
Perfluorobutanesulfonic acid (PFBS)	35.5	33.1		ng/L		93	60 - 145	7	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.6		ng/L		116	65 - 140	7	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	37.7		ng/L		99	70 - 150	4	30
Perfluorooctanesulfonic acid (PFOS)	37.2	38.3		ng/L		103	55 - 150	1	30
Perfluorononanesulfonic acid (PFNS)	38.5	35.9		ng/L		93	65 - 145	7	30
Perfluorodecanesulfonic acid (PFDS)	38.6	29.2		ng/L		76	60 - 145	6	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	36.9		ng/L		95	50 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	81.4		ng/L		108	70 - 145	11	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	81.2		ng/L		107	65 - 155	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	73.0		ng/L		95	60 - 150	20	30
Perfluorooctanesulfonamide (PFOSA)	40.0	41.4		ng/L		104	70 - 145	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	38.9		ng/L		97	60 - 150	4	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	43.1		ng/L		108	65 - 145	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.3		ng/L		96	50 - 140	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.5		ng/L		111	70 - 145	1	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	203		ng/L		101	70 - 145	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	32.4		ng/L		108	70 - 140	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	35.8		ng/L		95	65 - 145	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	38.1		ng/L		95	60 - 150	18	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	56.9		ng/L		142	50 - 150	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	30.1		ng/L		75	55 - 140	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	39.0		ng/L		105	70 - 155	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	30.5		ng/L		81	55 - 160	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	39.5		ng/L		111	70 - 140	12	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	79.1		ng/L		99	65 - 130	5	30

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LCSD 320-918734/4-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	197		ng/L		99	70 - 135	2	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	215		ng/L		108	50 - 145	18	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	70.8		5 - 130
13C5 PFPeA	105		40 - 130
13C5 PFHxA	72.0		40 - 130
13C4 PFHpA	70.2		40 - 130
13C8 PFOA	90.8		40 - 130
13C9 PFNA	83.5		40 - 130
13C6 PFDA	74.9		40 - 130
13C7 PFUnA	85.1		30 - 130
13C2 PFDoA	65.5		10 - 130
13C2 PFTeDA	89.4		10 - 130
13C6 PFTTrDA	73.8		20 - 150
13C3 PFBS	117		40 - 135
13C3 PFHxS	93.8		40 - 130
13C8 PFOS	86.5		40 - 130
13C8 PFOSA	84.4		40 - 130
d3-NMeFOSAA	85.6		40 - 170
d5-NEtFOSAA	78.2		25 - 135
13C2 4:2 FTS	127		40 - 200
13C2 6:2 FTS	119		40 - 200
13C2 8:2 FTS	122		40 - 300
13C3 HFPO-DA	75.4		40 - 130
d7-N-MeFOSE-M	60.3		10 - 130
d5-NEtPFOSA	58.4		10 - 130
d3-NMePFOSA	70.5		10 - 130
13C3-3:3 FTCA	81.6		20 - 150
13C3-5:3 FTCA	89.5		20 - 150

Lab Sample ID: LLCS 320-918734/2-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	10.4		ng/L		130	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	3.48		ng/L		87	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	5.23		ng/L		131	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.82		ng/L		120	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	5.07		ng/L		127	70 - 150
Perfluorononanoic acid (PFNA)	4.00	5.08		ng/L		127	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.59		ng/L		115	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.28		ng/L		107	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.38		ng/L		110	70 - 140

Eurofins Pomona

QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LLCS 320-918734/2-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.13		ng/L		103	65 - 140
Perfluorotetradecanoic acid (PFTTeDA)	4.00	3.72		ng/L		93	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	3.56	J	ng/L		100	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	4.56		ng/L		121	65 - 140
Perfluoroheptanesulfonic acid (PFHpS)	3.82	3.82		ng/L		100	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.89		ng/L		105	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.58		ng/L		93	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.12		ng/L		81	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.51		ng/L		91	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	8.92		ng/L		119	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	9.99		ng/L		131	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.62		ng/L		112	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.28		ng/L		107	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.15		ng/L		104	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.12		ng/L		103	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.09		ng/L		102	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.26		ng/L		106	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	22.7		ng/L		113	70 - 145
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.70		ng/L		123	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	3.55		ng/L		94	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	3.95		ng/L		99	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	6.11	*+	ng/L		153	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	3.57		ng/L		89	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.89		ng/L		104	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.28		ng/L		87	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	4.58		ng/L		128	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.63		ng/L		108	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	21.2		ng/L		106	70 - 135

Eurofins Pomona

QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LLCS 320-918734/2-A

Matrix: Water

Analysis Batch: 918831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	20.4		ng/L		102	50 - 145
LLCS LLCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C4 PFBA	68.3		5 - 130				
13C5 PFPeA	120		40 - 130				
13C5 PFHxA	86.0		40 - 130				
13C4 PFHpA	84.6		40 - 130				
13C8 PFOA	93.1		40 - 130				
13C9 PFNA	88.9		40 - 130				
13C6 PFDA	86.1		40 - 130				
13C7 PFUnA	74.9		30 - 130				
13C2 PFDoA	69.6		10 - 130				
13C2 PFTeDA	88.5		10 - 130				
13C6 PFTrDA	67.9		20 - 150				
13C3 PFBS	131		40 - 135				
13C3 PFHxS	104		40 - 130				
13C8 PFOS	92.8		40 - 130				
13C8 PFOSA	84.4		40 - 130				
d3-NMeFOSAA	85.1		40 - 170				
d5-NEtFOSAA	80.3		25 - 135				
13C2 4:2 FTS	133		40 - 200				
13C2 6:2 FTS	109		40 - 200				
13C2 8:2 FTS	133		40 - 300				
13C3 HFPO-DA	88.5		40 - 130				
d7-N-MeFOSE-M	56.1		10 - 130				
d5-NEtPFOSA	58.4		10 - 130				
d3-NMePFOSA	64.4		10 - 130				
13C3-3:3 FTCA	98.2		20 - 150				
13C3-5:3 FTCA	98.3		20 - 150				

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

Lab Sample ID: MB 320-918734/1-A

Matrix: Water

Analysis Batch: 919652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 918734

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS) - RA	<2.0		2.0	ng/L		05/26/26 20:13	06/02/26 09:10	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	<10		10	ng/L		05/26/26 20:13	06/02/26 09:10	1
MB MB								
Isotope Dilution	%Recovery	Qualifier	Limits					
13C3 PFHxS - RA	86.5		40 - 130					
d9-N-EtFOSE-M - RA	63.1		10 - 130					
						Prepared	Analyzed	Dil Fac
						05/26/26 20:13	06/02/26 09:10	1
						05/26/26 20:13	06/02/26 09:10	1

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QC Sample Results

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

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

Lab Sample ID: LCS 320-918734/3-A

Matrix: Water

Analysis Batch: 919652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	38.4		ng/L		105	65 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	200	201		ng/L		101	70 - 135
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C3 PFHxS - RA	88.0		40 - 130				
d9-N-EtFOSE-M - RA	65.9		10 - 130				

Lab Sample ID: LCSD 320-918734/4-A

Matrix: Water

Analysis Batch: 919652

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorohexanesulfonic acid (PFHxS) - RA	36.5	33.8		ng/L		93	65 - 145	13	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	200	207		ng/L		103	70 - 135	3	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
13C3 PFHxS - RA	89.3		40 - 130						
d9-N-EtFOSE-M - RA	62.0		10 - 130						

Lab Sample ID: LLCS 320-918734/2-A

Matrix: Water

Analysis Batch: 919652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 918734

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS) - RA	3.65	4.18		ng/L		115	65 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE) - RA	20.0	21.3		ng/L		106	70 - 135
Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits				
13C3 PFHxS - RA	87.0		40 - 130				
d9-N-EtFOSE-M - RA	68.9		10 - 130				

QC Association Summary

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

LCMS

Prep Batch: 918734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-215120-1	BWS2254-D2-AQ	Total/NA	Water	1633	
380-215120-1 - RA	BWS2254-D2-AQ	Total/NA	Water	1633	
MB 320-918734/1-A - RA	Method Blank	Total/NA	Water	1633	
MB 320-918734/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-918734/3-A - RA	Lab Control Sample	Total/NA	Water	1633	
LCS 320-918734/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-918734/4-A - RA	Lab Control Sample Dup	Total/NA	Water	1633	
LCSD 320-918734/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-918734/2-A - RA	Lab Control Sample	Total/NA	Water	1633	
LLCS 320-918734/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 918831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-215120-1	BWS2254-D2-AQ	Total/NA	Water	QSM B-24	918734
MB 320-918734/1-A	Method Blank	Total/NA	Water	QSM B-24	918734
LCS 320-918734/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	918734
LCSD 320-918734/4-A	Lab Control Sample Dup	Total/NA	Water	QSM B-24	918734
LLCS 320-918734/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	918734

Analysis Batch: 919236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-215120-1 - RA	BWS2254-D2-AQ	Total/NA	Water	QSM B-24	918734

Analysis Batch: 919652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-918734/1-A - RA	Method Blank	Total/NA	Water	QSM B-24	918734
LCS 320-918734/3-A - RA	Lab Control Sample	Total/NA	Water	QSM B-24	918734
LCSD 320-918734/4-A - RA	Lab Control Sample Dup	Total/NA	Water	QSM B-24	918734
LLCS 320-918734/2-A - RA	Lab Control Sample	Total/NA	Water	QSM B-24	918734

Lab Chronicle

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

Job ID: 380-215120-1
SDG: Site D2 PFAS 1633

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-215120-1

Date Collected: 05/19/26 11:00

Matrix: Water

Date Received: 05/20/26 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			918734	EBH	EET SAC	05/26/26 20:13
Total/NA	Analysis	QSM B-24		1	918831	N1K	EET SAC	05/28/26 00:51
Total/NA	Prep	1633	RA		918734	EBH	EET SAC	05/26/26 20:13
Total/NA	Analysis	QSM B-24	RA	1	919236	K1D	EET SAC	05/29/26 13:31

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: 380-215120-1
SDG: Site D2 PFAS 1633

Laboratory: Eurofins Sacramento

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

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

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

Eurofins Pomona

Method Summary

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

Job ID: 380-215120-1
SDG: Site D2 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: 380-215120-1
SDG: Site D2 PFAS 1633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-215120-1	BWS2254-D2-AQ	Water	05/19/26 11:00	05/20/26 09:50	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 P/N: 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		FWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street		Due Date Requested:		1633 DDBs - EPA Method 1633 Sld List		Preservation Codes: A - HCL N - None	
City: Honolulu		TAT Requested (days): Standard		Field Filled Sample (Yes or No)		Other:	
State, Zip: HI, 96843		Compliance Project: ☒ Yes ☐ No		Matrix (Water, Soil, Sediment, Air, etc.)		TOTAL Number of Containers	
Phone: 808-748-5066		PO #:		Sample Type (C=Comp, G=grab)		Special Instructions/Note:	
Email: ekawata@hibws.org		WO #:		Sample Date		BILL TO POMONA EEA	
Project Name: INTERA - Red-Hill Incident		Project #: 38000861		Sample Time		380-215120 COC	
Site: D2		SSOW#:		Preservation Code			
Sample Identification		Sample Date		Sample Time			
BWS2254-D2-AQ		5/19/26		11:00			
Possible Hazard Identification		Sample Type		Matrix			
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		G		Water			
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by		Date:		Time:		Method of Shipment	
Relinquished by: H. Bentley		Date/Time: 5/19/26 14:00		Company: INTERA		Received by: DSM	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seal No.: 2189900		Custody Seal Intact: ☒ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 0, 7 °C		Ver 05/06/2024	

Chain of Custody Record

[illegible]

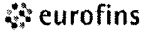
Eurofins Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler H Bentley (808) 321-0683	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
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 - HCL N - None	
State, Zip HI, 96843		Compliance Project: ☒ Yes ☒ No		Other	
Phone: 808-748-5066		PO #:			
Email: ekawata@hbws.org		WO #:			
Project Name: INTERA - Red-Hill-Incident		Project #: 38000861			
Site D2		SSOW#:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=tissue, A=air, DW=drinking water)
BWS2254-D2-AQ		5/19/26	11:00	G	Water
Special Instructions/Note:		1633 DOD6 - EPA Method 1633 Std List			
Total Number of containers		1633 DOD6 - EPA Method 1633 Std List			
Special Instructions/Note:		BILL TO POMONA EEA			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I II III, IV Other (specify)		Special Instructions/QC Requirements.			
Empty Kit Relinquished by		Method of Shipment:			
Relinquished by H. Bentley		Date: 5/19/26		Time: 14:00	
Relinquished by		Date/Time: 5/19/26 14:00		Company INTERA	
Relinquished by		Date/Time:		Company	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.: 2189900		Cooler Temperature(s) °C and Other Remarks: 0.7 °C	

 Environment Testing	Document Title: Sample Receiving Notes		
	Eurofins Document Reference : S-SR-FRM72109	Revision: 3	Historical Reference: QA-812
	date : 18 Jul 2025		Issued by: XE8X



Job _____

Tracking # 872004715443
 SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
 GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
 File in the job folder with the COC

Therm. ID LOV Corr Factor (+/-) NA °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal 2189900

Cooler ID 2 of 2

Temp Observed 0.7 °C Corrected 0.7 °C

From Temp Blank ☐ Sandwich ☒ Sidewall ☐

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with? ☐ ☒ ☐

Cooler Temperature is acceptable? ☒ ☐ ☐

Frozen samples show signs of thaw? ☐ ☐ ☒

Initials DM Date 05/20/20

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking? ☒ ☐ ☐

Samples compromised/tampered with? ☐ ☒ ☐

COC is complete w/o discrepancies ☒ ☐ ☐

Sample custody seal? ☐ ☐ ☒

Sample containers have legible labels? ☒ ☐ ☐

Sample date/times are provided? ☒ ☐ ☐

Appropriate containers are used? ☒ ☐ ☐

Sample bottles are completely filled? ☒ ☐ ☐

Sample preservatives verified? ☐ ☐ ☒

Is the Field Sampler's name on COC? ☒ ☐ ☐

Samples w/o discrepancies? ☒ ☐ ☐

Zero headspace?* ☐ ☐ ☒

Alkalinity has no headspace? ☐ ☐ ☒

Perchlorate has headspace?
(Methods 314, 331, 6850) ☐ ☐ ☒

Multiphasic samples are not present? ☒ ☐ ☐

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

Initials SO Date 5/20/20

Notes _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion Yes No NA

Receipt Temperature on COC? ☒ ☐ ☐

NCM Filed? ☐ ☐ ☒

Samples received within hold time? ☐ ☐ ☒

Log Release checked in TALS? ☐ ☐ ☒

Initials SO Date 5/20/20

WMS-14C / 294B

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-215120-1
SDG Number: Site D2 PFAS 1633

Login Number: 215120

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-215120-1
SDG Number: Site D2 PFAS 1633

Login Number: 215120

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 05/20/26 08:16 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	2189900
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	0.7C
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	