

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly PFAS
RUSH Weekly Red Hill

JOB NUMBER

380-149297-1

Eurofins Eaton Analytical 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 Eaton Analytical, 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



Authorized for release by
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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Qualifiers

LCMS

Qualifier	Qualifier Description
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: RED-HILL

Job ID: 380-149297-1

Job ID: 380-149297-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-149297-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/7/2025 10:19 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

PFAS

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: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-1

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-3

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-4

No Detections.

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-5

No Detections.

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-6

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-7

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-1

Date Collected: 05/05/25 09:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C6 PFDA	91		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C5 PFHxA	95		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C4 PFHpA	96		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C8 PFOA	94		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C9 PFNA	92		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C7 PFUnA	93		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C2 PFDoA	89		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C4 PFBA	97		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C5 PFPeA	93		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C3 PFBS	104		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C3 PFHxS	103		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C8 PFOS	106		50 - 200	05/08/25 18:15	05/09/25 09:02	1

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Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-1

Date Collected: 05/05/25 09:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	118		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C2-6:2-FTS	107		50 - 200	05/08/25 18:15	05/09/25 09:02	1
13C2-8:2-FTS	96		50 - 200	05/08/25 18:15	05/09/25 09:02	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130			05/08/25 03:38	05/08/25 20:32	1
13C2 PFHxA	106		70 - 130			05/08/25 03:38	05/08/25 20:32	1
13C2 PFDA	102		70 - 130			05/08/25 03:38	05/08/25 20:32	1
13C3-GenX	105		70 - 130			05/08/25 03:38	05/08/25 20:32	1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Lab Sample ID: 380-149297-2

Date Collected: 05/05/25 10:28

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-149297-2

Date Collected: 05/05/25 10:28

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C6 PFDA	83		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C5 PFHxA	87		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C4 PFHpA	90		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C8 PFOA	87		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C9 PFNA	86		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C7 PFUnA	81		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C2 PFDoA	78		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C4 PFBA	93		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C5 PFPeA	92		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C3 PFBS	103		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C3 PFHxS	103		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C8 PFOS	104		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C2-4:2-FTS	119		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C2-6:2-FTS	109		50 - 200	05/08/25 18:15	05/09/25 09:12	1
13C2-8:2-FTS	97		50 - 200	05/08/25 18:15	05/09/25 09:12	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-149297-2

Date Collected: 05/05/25 10:28

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorooctanesulfonic acid (PFOS)	2.2		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorohexanoic acid (PFHxA)	2.1		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			05/08/25 03:38	05/08/25 20:42	1
13C2 PFHxA	104		70 - 130			05/08/25 03:38	05/08/25 20:42	1
13C2 PFDA	104		70 - 130			05/08/25 03:38	05/08/25 20:42	1
13C3-GenX	103		70 - 130			05/08/25 03:38	05/08/25 20:42	1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-3

Date Collected: 05/05/25 10:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-3

Date Collected: 05/05/25 10:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C6 PFDA	93		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C5 PFHxA	94		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C4 PFHpA	98		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C8 PFOA	95		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C9 PFNA	96		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C7 PFUnA	91		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C2 PFDoA	87		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C4 PFBA	95		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C5 PFPeA	98		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C3 PFBS	108		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C3 PFHxS	107		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C8 PFOS	105		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C2-4:2-FTS	112		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C2-6:2-FTS	106		50 - 200	05/08/25 18:15	05/09/25 09:21	1
13C2-8:2-FTS	96		50 - 200	05/08/25 18:15	05/09/25 09:21	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-3

Date Collected: 05/05/25 10:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			05/08/25 03:38	05/08/25 20:51	1
13C2 PFHxA	108		70 - 130			05/08/25 03:38	05/08/25 20:51	1
13C2 PFDA	106		70 - 130			05/08/25 03:38	05/08/25 20:51	1
13C3-GenX	103		70 - 130			05/08/25 03:38	05/08/25 20:51	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-149297-4

Date Collected: 05/05/25 11:10

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-149297-4

Date Collected: 05/05/25 11:10

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:31	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C6 PFDA	94		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C5 PFHxA	99		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C4 PFHpA	100		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C8 PFOA	97		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C9 PFNA	96		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C7 PFUnA	90		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C2 PFDoA	84		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C4 PFBA	100		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C5 PFPeA	100		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C3 PFBS	108		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C3 PFHxS	108		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C8 PFOS	112		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C2-4:2-FTS	125		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C2-6:2-FTS	114		50 - 200			05/08/25 18:15	05/09/25 09:31	1
13C2-8:2-FTS	101		50 - 200			05/08/25 18:15	05/09/25 09:31	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-149297-4

Date Collected: 05/05/25 11:10

Matrix: Drinking Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130			05/08/25 03:38	05/08/25 21:10	1
13C2 PFHxA	105		70 - 130			05/08/25 03:38	05/08/25 21:10	1
13C2 PFDA	104		70 - 130			05/08/25 03:38	05/08/25 21:10	1
13C3-GenX	97		70 - 130			05/08/25 03:38	05/08/25 21:10	1

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-5

Date Collected: 05/05/25 09:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-5

Date Collected: 05/05/25 09:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:40	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C6 PFDA	99		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C5 PFHxA	103		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C4 PFHpA	104		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C8 PFOA	102		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C9 PFNA	101		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C7 PFUnA	101		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C2 PFDoA	95		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C4 PFBA	106		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C5 PFPeA	105		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C3 PFBS	106		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C3 PFHxS	103		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C8 PFOS	104		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C2-4:2-FTS	115		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C2-6:2-FTS	103		50 - 200			05/08/25 18:15	05/09/25 09:40	1
13C2-8:2-FTS	99		50 - 200			05/08/25 18:15	05/09/25 09:40	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-5

Date Collected: 05/05/25 09:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	96		70 - 130			05/08/25 03:38	05/08/25 21:20	1
13C2 PFHxA	104		70 - 130			05/08/25 03:38	05/08/25 21:20	1
13C2 PFDA	103		70 - 130			05/08/25 03:38	05/08/25 21:20	1
13C3-GenX	93		70 - 130			05/08/25 03:38	05/08/25 21:20	1

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2

Lab Sample ID: 380-149297-6

(331-206-TP065)

Date Collected: 05/05/25 10:28

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-149297-6

Date Collected: 05/05/25 10:28

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 09:50	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C6 PFDA	101		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C5 PFHxA	102		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C4 PFHpA	108		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C8 PFOA	103		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C9 PFNA	105		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C7 PFUnA	106		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C2 PFDoA	99		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C4 PFBA	109		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C5 PFPeA	107		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C3 PFBS	107		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C3 PFHxS	107		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C8 PFOS	113		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C2-4:2-FTS	122		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C2-6:2-FTS	112		50 - 200			05/08/25 18:15	05/09/25 09:50	1
13C2-8:2-FTS	100		50 - 200			05/08/25 18:15	05/09/25 09:50	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUDS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-149297-6

Date Collected: 05/05/25 10:28

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130			05/08/25 03:38	05/08/25 21:29	1
13C2 PFHxA	106		70 - 130			05/08/25 03:38	05/08/25 21:29	1
13C2 PFDA	108		70 - 130			05/08/25 03:38	05/08/25 21:29	1
13C3-GenX	101		70 - 130			05/08/25 03:38	05/08/25 21:29	1

**Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-7

Date Collected: 05/05/25 10:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-7

Date Collected: 05/05/25 10:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:00	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C6 PFDA	104		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C5 PFHxA	106		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C4 PFHpA	109		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C8 PFOA	108		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C9 PFNA	108		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C7 PFUnA	106		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C2 PFDoA	103		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C4 PFBA	107		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C5 PFPeA	103		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C3 PFBS	108		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C3 PFHxS	107		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C8 PFOS	112		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C2-4:2-FTS	113		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C2-6:2-FTS	111		50 - 200			05/08/25 18:15	05/09/25 10:00	1
13C2-8:2-FTS	103		50 - 200			05/08/25 18:15	05/09/25 10:00	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130			05/08/25 03:38	05/08/25 21:39	1
13C2 PFHxA	104		70 - 130			05/08/25 03:38	05/08/25 21:39	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-149297-7

Date Collected: 05/05/25 10:54

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	103		70 - 130	05/08/25 03:38	05/08/25 21:39	1
13C3-GenX	98		70 - 130	05/08/25 03:38	05/08/25 21:39	1

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-149297-8

Date Collected: 05/05/25 11:10

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/08/25 18:15	05/09/25 10:09	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200			05/08/25 18:15	05/09/25 10:09	1
13C6 PFDA	107		50 - 200			05/08/25 18:15	05/09/25 10:09	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-149297-8

Date Collected: 05/05/25 11:10

Matrix: Water

Date Received: 05/07/25 10:19

PWSID Number: HI0000331

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	107		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C4 PFHpA	107		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C8 PFOA	107		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C9 PFNA	107		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C7 PFUnA	109		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C2 PFDoA	102		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C4 PFBA	107		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C5 PFPeA	108		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C3 PFBS	106		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C3 PFHxS	110		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C8 PFOS	111		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C2-4:2-FTS	122		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C2-6:2-FTS	115		50 - 200	05/08/25 18:15	05/09/25 10:09	1
13C2-8:2-FTS	104		50 - 200	05/08/25 18:15	05/09/25 10:09	1

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/08/25 03:38	05/08/25 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130	05/08/25 03:38	05/08/25 21:49	1
13C2 PFHxA	107		70 - 130	05/08/25 03:38	05/08/25 21:49	1
13C2 PFDA	104		70 - 130	05/08/25 03:38	05/08/25 21:49	1
13C3-GenX	99		70 - 130	05/08/25 03:38	05/08/25 21:49	1

Eurofins Eaton Analytical Pomona

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-1

PWSID Number: HI0000331

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-149297-2

(331-206-TP065)

PWSID Number: HI0000331

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-149297-3

(331-201-TP071)

PWSID Number: HI0000331

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-3

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 Limit	RL	Method	Prep Type
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-4

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-5

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA

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Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)
(Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-5

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-6

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-7

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA

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Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 1
(331-201-TP071) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-7

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 Limit	RL	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-149297-8

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-149297-1	MOANALUA WELLS (331-223-T	99	106	102	105
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	103	104	104	103
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	105	108	106	103
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	100	105	104	97

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
GenX = 13C3-GenX

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-149264-E-1-A MS	Matrix Spike	100	109	106	103
380-149264-F-1-A MSD	Matrix Spike Duplicate	99	112	109	107
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	96	104	103	93
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	95	106	108	101
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	97	104	103	98
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	100	107	104	99
LCS 380-151289/22-A	Lab Control Sample	94	108	107	91
MBL 380-151289/20-A	Method Blank	88	99	102	90
MRL 380-151289/21-A	Lab Control Sample	94	102	104	93

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFHxA = 13C2 PFHxA
PFDA = 13C2 PFDA
GenX = 13C3-GenX

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-149297-1	MOANALUA WELLS (331-223-T	90	91	95	96	94	92	93	89
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	87	83	87	90	87	86	81	78
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	87	93	94	98	95	96	91	87
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	96	94	99	100	97	96	90	84

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-149297-1	MOANALUA WELLS (331-223-T	97	93	104	103	106	118	107	96
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	93	92	103	103	104	119	109	97
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	95	98	108	107	105	112	106	96
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	100	100	108	108	112	125	114	101

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
42FTS = 13C2-4:2-FTS
62FTS = 13C2-6:2-FTS
82FTS = 13C2-8:2-FTS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-149282-B-1-A MS	Matrix Spike	100	101	95	98	98	101	104	103
380-149282-C-1-A MSD	Matrix Spike Duplicate	105	107	100	103	101	107	107	105
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	96	99	103	104	102	101	101	95
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	95	101	102	108	103	105	106	99
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	97	104	106	109	108	108	106	103
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	101	107	107	107	107	107	109	102
LCS 380-151433/22-A	Lab Control Sample	112	107	106	108	109	109	111	108

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Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
MBL 380-151433/20-A	Method Blank	104	103	109	111	110	110	112	107
MRL 380-151433/21-A	Lab Control Sample	108	110	114	113	112	111	110	106

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-149282-B-1-A MS	Matrix Spike	103	108	106	106	109	118	114	107
380-149282-C-1-A MSD	Matrix Spike Duplicate	101	108	107	106	108	121	112	107
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	106	105	106	103	104	115	103	99
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	109	107	107	107	113	122	112	100
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	107	103	108	107	112	113	111	103
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	107	108	106	110	111	122	115	104
LCS 380-151433/22-A	Lab Control Sample	109	112	109	109	111	121	114	110
MBL 380-151433/20-A	Method Blank	106	107	117	112	114	122	117	114
MRL 380-151433/21-A	Lab Control Sample	110	108	117	110	114	124	117	112

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
42FTS = 13C2-4:2-FTS
62FTS = 13C2-6:2-FTS
82FTS = 13C2-8:2-FTS

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 380-151433/20-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151433

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.30		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		05/08/25 18:15	05/09/25 06:20	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C6 PFDA	103		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C5 PFHxA	109		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C4 PFHpA	111		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C8 PFOA	110		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C9 PFNA	110		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C7 PFUnA	112		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C2 PFDoA	107		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C4 PFBA	106		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C5 PFPeA	107		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C3 PFBS	117		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C3 PFHxS	112		50 - 200	05/08/25 18:15	05/09/25 06:20	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 380-151433/20-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151433

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	114		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C2-4:2-FTS	122		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C2-6:2-FTS	117		50 - 200	05/08/25 18:15	05/09/25 06:20	1
13C2-8:2-FTS	114		50 - 200	05/08/25 18:15	05/09/25 06:20	1

Lab Sample ID: LCS 380-151433/22-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	106		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	106		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	114		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	117		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	112		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	120	119		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	120	114		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	114		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	112		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	120	118		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	120	114		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	112		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	120	115		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	114		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	120	116		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	119		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	114		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	116		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	121		ng/L		101	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	107		ng/L		89	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	116		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	112		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	120	115		ng/L		96	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	112		ng/L		93	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 380-151433/22-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	113		ng/L		94	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	112		50 - 200				
13C6 PFDA	107		50 - 200				
13C5 PFHxA	106		50 - 200				
13C4 PFHpA	108		50 - 200				
13C8 PFOA	109		50 - 200				
13C9 PFNA	109		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	108		50 - 200				
13C4 PFBA	109		50 - 200				
13C5 PFPeA	112		50 - 200				
13C3 PFBS	109		50 - 200				
13C3 PFHxS	109		50 - 200				
13C8 PFOS	111		50 - 200				
13C2-4:2-FTS	121		50 - 200				
13C2-6:2-FTS	114		50 - 200				
13C2-8:2-FTS	110		50 - 200				

Lab Sample ID: MRL 380-151433/21-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.05	J	ng/L		103	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	1.83	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.08	J	ng/L		104	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.00	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.13	J	ng/L		106	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.23	J	ng/L		111	50 - 150

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MRL 380-151433/21-A

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.31	J	ng/L		115	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.31	J	ng/L		115	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.36	J	ng/L		118	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	1.71	J	ng/L		85	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.08	J	ng/L		104	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	108		50 - 200
13C6 PFDA	110		50 - 200
13C5 PFHxA	114		50 - 200
13C4 PFHpA	113		50 - 200
13C8 PFOA	112		50 - 200
13C9 PFNA	111		50 - 200
13C7 PFUnA	110		50 - 200
13C2 PFDoA	106		50 - 200
13C4 PFBA	110		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	117		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	124		50 - 200
13C2-6:2-FTS	117		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-149282-B-1-A MS

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	104		ng/L		86	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	106		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	118		ng/L		98	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 380-149282-B-1-A MS

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		120	120		ng/L		100	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	114		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	119		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	117		ng/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	119		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	115		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	120		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	118		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	115		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	121		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	114		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	119		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	122		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	115		ng/L		96	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		120	121		ng/L		100	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	110		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	121		ng/L		101	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	123		ng/L		102	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	118		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	115		ng/L		96	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	114		ng/L		95	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	100		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	95		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	98		50 - 200
13C9 PFNA	101		50 - 200
13C7 PFUnA	104		50 - 200
13C2 PFDoA	103		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	106		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	109		50 - 200

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 380-149282-B-1-A MS

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151433

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	118		50 - 200
13C2-6:2-FTS	114		50 - 200
13C2-8:2-FTS	107		50 - 200

Lab Sample ID: 380-149282-C-1-A MSD

Matrix: Water

Analysis Batch: 151535

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 151433

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	105		ng/L		87	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		120	107		ng/L		89	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	117		ng/L		97	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	116		ng/L		96	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	116		ng/L		96	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		120	118		ng/L		98	70 - 130	1	30
Perfluorododecanoic acid (PFDaA)	<2.0		120	118		ng/L		98	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	118		ng/L		98	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	116		ng/L		96	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	117		ng/L		97	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		120	115		ng/L		95	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	115		ng/L		95	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		120	120		ng/L		100	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	118		ng/L		98	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	<2.0		120	122		ng/L		102	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	115		ng/L		96	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	118		ng/L		98	70 - 130	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	122		ng/L		101	70 - 130	6	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	116		ng/L		97	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		120	109		ng/L		91	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	125		ng/L		104	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	122		ng/L		101	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	121		ng/L		100	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	118		ng/L		98	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	118		ng/L		98	70 - 130	4	30

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	100		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	101		50 - 200
13C9 PFNA	107		50 - 200
13C7 PFUnA	107		50 - 200
13C2 PFDoA	105		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	107		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	108		50 - 200
13C2-4:2-FTS	121		50 - 200
13C2-6:2-FTS	112		50 - 200
13C2-8:2-FTS	107		50 - 200

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 380-151289/20-A
Matrix: Water
Analysis Batch: 151435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151289

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/08/25 03:38	05/08/25 18:38	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	88		70 - 130			05/08/25 03:38	05/08/25 18:38	1
13C2 PFHxA	99		70 - 130			05/08/25 03:38	05/08/25 18:38	1
13C2 PFDA	102		70 - 130			05/08/25 03:38	05/08/25 18:38	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MBL 380-151289/20-A
Matrix: Water
Analysis Batch: 151435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151289

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	90		70 - 130	05/08/25 03:38	05/08/25 18:38	1

Lab Sample ID: LCS 380-151289/22-A
Matrix: Water
Analysis Batch: 151435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	21.0		ng/L		84	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	23.9		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	24.2		ng/L		97	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	22.5		ng/L		90	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	21.6		ng/L		86	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	22.4		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	23.6		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	23.1		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	23.7		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	23.9		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	24.6		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.0		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	25.1	23.9		ng/L		96	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	23.0		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	26.1		ng/L		104	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	24.4		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.2		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	22.1		ng/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	108		70 - 130
13C2 PFDA	107		70 - 130
13C3-GenX	91		70 - 130

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MRL 380-151289/21-A

Matrix: Water

Analysis Batch: 151435

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151289

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.74	J	ng/L		87	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.92	J	ng/L		96	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.87	J	ng/L		93	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.13	J	ng/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.00	J	ng/L		100	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.89	J	ng/L		94	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.10	J	ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.99	J	ng/L		99	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.94	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.82	J	ng/L		91	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	102		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	93		70 - 130

Lab Sample ID: 380-149264-E-1-A MS

Matrix: Water

Analysis Batch: 151435

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151289

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	23.4		ng/L		94	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.2		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	23.5		ng/L		94	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	24.0		ng/L		96	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 380-149264-E-1-A MS

Matrix: Water

Analysis Batch: 151435

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151289

Sample Data - 10/12/20									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	23.2		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	26.4		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	23.5		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	25.2		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	24.1		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	26.4		ng/L		101	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	26.7		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	25.6		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	24.1		ng/L		96	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	21.9		ng/L		87	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	26.3		ng/L		105	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	25.1		ng/L		100	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	24.3		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	23.6		ng/L		94	70 - 130

Lab Sample ID: 380-149264-F-1-A MSD

Matrix: Water

Analysis Batch: 151435

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 151289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	25.2		ng/L		100	70 - 130	7	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.4		ng/L		99	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	26.1		ng/L		104	70 - 130	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	24.2		ng/L		96	70 - 130	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	23.6		ng/L		94	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	27.6		ng/L		103	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	25.2		ng/L		100	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	26.9		ng/L		102	70 - 130	7	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	25.8		ng/L		103	70 - 130	7	30

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 380-149264-F-1-A MSD

Matrix: Water

Analysis Batch: 151435

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 151289

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	26.4		ng/L		101	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	26.6		ng/L		101	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	26.7		ng/L		103	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	25.9		ng/L		103	70 - 130	7	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	23.4		ng/L		93	70 - 130	7	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		25.1	27.6		ng/L		110	70 - 130	5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	25.3		ng/L		101	70 - 130	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	24.2		ng/L		96	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	25.2		ng/L		100	70 - 130	6	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	99		70 - 130								
13C2 PFHxA	112		70 - 130								
13C2 PFDA	109		70 - 130								
13C3-GenX	107		70 - 130								

QC Association Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

LCMS

Prep Batch: 151289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149297-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	537.1 DW	
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1 DW	
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01)	Total/NA	Water	537.1 DW	
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	537.1 DW	
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	537.1 DW	
MBL 380-151289/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-151289/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-151289/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-149264-E-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-149264-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 151433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149297-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	533	
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01)	Total/NA	Water	533	
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	533	
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	533	
MBL 380-151433/20-A	Method Blank	Total/NA	Water	533	
LCS 380-151433/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-151433/21-A	Lab Control Sample	Total/NA	Water	533	
380-149282-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-149282-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 151435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149297-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1	151289
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	537.1	151289
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	151289
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	151289
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1	151289
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01)	Total/NA	Water	537.1	151289
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	537.1	151289
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	537.1	151289
MBL 380-151289/20-A	Method Blank	Total/NA	Water	537.1	151289
LCS 380-151289/22-A	Lab Control Sample	Total/NA	Water	537.1	151289
MRL 380-151289/21-A	Lab Control Sample	Total/NA	Water	537.1	151289
380-149264-E-1-A MS	Matrix Spike	Total/NA	Water	537.1	151289
380-149264-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	151289

Analysis Batch: 151535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149297-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	151433
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	533	151433
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	151433

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

LCMS (Continued)

Analysis Batch: 151535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	151433
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	151433
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01)	Total/NA	Water	533	151433
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP01)	Total/NA	Water	533	151433
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP01)	Total/NA	Water	533	151433
MBL 380-151433/20-A	Method Blank	Total/NA	Water	533	151433
LCS 380-151433/22-A	Lab Control Sample	Total/NA	Water	533	151433
MRL 380-151433/21-A	Lab Control Sample	Total/NA	Water	533	151433
380-149282-B-1-A MS	Matrix Spike	Total/NA	Water	533	151433
380-149282-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	151433

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-1

Date Collected: 05/05/25 09:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:02
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 20:32

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Lab Sample ID: 380-149297-2

Date Collected: 05/05/25 10:28

Matrix: Drinking Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:12
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 20:42

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)

Lab Sample ID: 380-149297-3

Date Collected: 05/05/25 10:54

Matrix: Drinking Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:21
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 20:51

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-149297-4

Date Collected: 05/05/25 11:10

Matrix: Drinking Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:31
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 21:10

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-5

Date Collected: 05/05/25 09:54

Matrix: Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:40

Eurofins Eaton Analytical Pomona

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Client Sample ID: FB MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-149297-5

Date Collected: 05/05/25 09:54

Matrix: Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 21:20

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Lab Sample ID: 380-149297-6

Date Collected: 05/05/25 10:28

Matrix: Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 09:50
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 21:29

Client Sample ID: FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)

Lab Sample ID: 380-149297-7

Date Collected: 05/05/25 10:54

Matrix: Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 10:00
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 21:39

Client Sample ID: FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-149297-8

Date Collected: 05/05/25 11:10

Matrix: Water

Date Received: 05/07/25 10:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151433	E2HD	EA POM	05/08/25 18:15
Total/NA	Analysis	533		1	151535	SZ9R	EA POM	05/09/25 10:09
Total/NA	Prep	537.1 DW			151289	G9MN	EA POM	05/08/25 03:38
Total/NA	Analysis	537.1		1	151435	SZ9R	EA POM	05/08/25 21:49

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

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Method Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

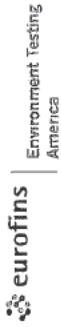
Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-149297-1
SDG: Weekly PFAS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-149297-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	05/05/25 09:54	05/07/25 10:19	HI0000331
380-149297-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	05/05/25 10:28	05/07/25 10:19	HI0000331
380-149297-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	05/05/25 10:54	05/07/25 10:19	HI0000331
380-149297-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	05/05/25 11:10	05/07/25 10:19	HI0000331
380-149297-5	FB MOANALUA WELLS (331-223-TP202)	Water	05/05/25 09:54	05/07/25 10:19	HI0000331
380-149297-6	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Water	05/05/25 10:28	05/07/25 10:19	HI0000331
380-149297-7	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	05/05/25 10:54	05/07/25 10:19	HI0000331
380-149297-8	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	05/05/25 11:10	05/07/25 10:19	HI0000331

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia CA 91016
Phone (626) 386-1100

Chain of Custody Record



Client Information		Lab PM	Carrier Tracking No(s)	COC No										
Bailey		Arada Rachelle		380-27941-2757.2										
Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et-euronisus.com	State of Origin:	Page: 2 of 2										
Company: City & County of Honolulu		PWSID:		Job #:										
Address: 630 South Beretania Street, Chemistry Lab		Due Date Requested:	Analysis Requested											
City: Honolulu		TAT Requested (days):												
State, Zip: HI 96843		Compliance Project: Δ No												
Phone: 808-748-5840 (tel)		PO #: C20525101 exp 05312023												
Email: kwamoto@hbws.org		WO #: 38001111												
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		SSOW#: 38001111												
Site:														
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=organic, BT=tissue, AS=air)	Field Filtered Sample (Yes or No)	Platform MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physals LL (EAL) + TICs	0015B GRC_LL - (MOD) GRC	0015B DRC_LL_CS - HNL Ranges C10-C24/C24-C38/C8	525.2_PRC (MOD) 525plus PLUS TICs	537.1_LW_PRC 537.1 Full List	533 All Analytes	Total Number of Containers	Special Instructions/Note
Moanalua Wells	5-May-2025	0954	G	Water										chlorinated
Halawa Wells Units 1&2 P1	5-May-2025	1028	G	Water										chlorinated
Aiea Gulch Wells Pump 1	5-May-2025	1054	G	Water										chlorinated
Aiea Gulch Wells Pump 2	5-May-2025	1110	G	Water										chlorinated
FB Moanalua Wells	5-May-2025	0954												
FB Halawa Wells Units 1&2	5-May-2025	1028												
FB Aiea Gulch Wells Pump 1	5-May-2025	1054												
FB Aiea Gulch Wells Pump 2	5-May-2025	1110												
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested I II III IV Other (specify)														
Empty Kit Relinquished by: _____ Date: _____														
Received by: _____ Date/Time: 06 May 2025 1400 Company: HBWS														
Relinquished by: _____ Date/Time: _____ Company: _____														
Custody Seals Intact: Δ Yes Δ No														
Custody Seal No														
Cooler Temperature(s) °C and Other Remarks: 6 PAH / 1.3 = 1.3 602														

Ver 01/16/2019

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-149297-1

SDG Number: Weekly PFAS

Login Number: 149297

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

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").	N/A	
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	