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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

Generated 1/15/2025 11:15:49 AM

JOB DESCRIPTION

RED-HILL
Weekly PFAS

JOB NUMBER

380-129624-1

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



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Authorized for release by
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Definitions/Glossary

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

Job ID: 380-129624-1
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: 380-129624-1

Job ID: 380-129624-1

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Job Narrative 380-129624-1

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 1/10/2025 9:26 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 6.5°C.

PFAS

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

Detection Summary

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1

No Detections.

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

Lab Sample ID: 380-129624-2

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-3

No Detections.

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

Lab Sample ID: 380-129624-4

No Detections.

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

Lab Sample ID: 380-129624-5

No Detections.

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-6

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1

Date Collected: 01/08/25 10:40

Matrix: Drinking Water

Date Received: 01/10/25 09:26

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-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:39	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 HFPO-DA	108		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C6 PFDA	116		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C5 PFHxA	115		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C4 PFHpA	120		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C8 PFOA	121		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C9 PFNA	121		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C7 PFUnA	120		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C2 PFDoA	121		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C4 PFBA	116		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C5 PFPeA	126		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C3 PFBS	116		50 - 200			01/12/25 14:23	01/13/25 13:39	1
13C3 PFHxS	119		50 - 200			01/12/25 14:23	01/13/25 13:39	1

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Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1

Date Collected: 01/08/25 10:40
Date Received: 01/10/25 09:26

Matrix: Drinking Water
PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	122		50 - 200	01/12/25 14:23	01/13/25 13:39	1
13C2-4:2-FTS	141		50 - 200	01/12/25 14:23	01/13/25 13:39	1
13C2-6:2-FTS	137		50 - 200	01/12/25 14:23	01/13/25 13:39	1
13C2-8:2-FTS	128		50 - 200	01/12/25 14:23	01/13/25 13:39	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		01/13/25 06:14	01/13/25 23:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/13/25 06:14	01/13/25 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	120		70 - 130	01/13/25 06:14	01/13/25 23:13	1
13C2 PFHxA	121		70 - 130	01/13/25 06:14	01/13/25 23:13	1
13C2 PFDA	114		70 - 130	01/13/25 06:14	01/13/25 23:13	1
13C3-GenX	107		70 - 130	01/13/25 06:14	01/13/25 23:13	1

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

Lab Sample ID: 380-129624-2

Date Collected: 01/08/25 10:45
Date Received: 01/10/25 09:26

Matrix: Drinking Water
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		01/12/25 14:23	01/13/25 13:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1

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Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-2

Date Collected: 01/08/25 10:45

Matrix: Drinking Water

Date Received: 01/10/25 09:26

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
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	105		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C6 PFDA	115		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C5 PFHxA	114		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C4 PFHpA	119		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C8 PFOA	121		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C9 PFNA	119		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C7 PFUnA	120		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C2 PFDoA	119		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C4 PFBA	114		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C5 PFPeA	121		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C3 PFBS	118		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C3 PFHxS	121		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C8 PFOS	121		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C2-4:2-FTS	137		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C2-6:2-FTS	139		50 - 200	01/12/25 14:23	01/13/25 13:49	1
13C2-8:2-FTS	125		50 - 200	01/12/25 14:23	01/13/25 13:49	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-2

Date Collected: 01/08/25 10:45

Matrix: Drinking Water

Date Received: 01/10/25 09:26

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		01/13/25 06:14	01/14/25 01:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107		70 - 130			01/13/25 06:14	01/14/25 01:55	1
13C2 PFHxA	112		70 - 130			01/13/25 06:14	01/14/25 01:55	1
13C2 PFDA	113		70 - 130			01/13/25 06:14	01/14/25 01:55	1
13C3-GenX	111		70 - 130			01/13/25 06:14	01/14/25 01:55	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-129624-3

Date Collected: 01/08/25 11:20

Matrix: Drinking Water

Date Received: 01/10/25 09:26

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-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-129624-3

Date Collected: 01/08/25 11:20

Matrix: Drinking Water

Date Received: 01/10/25 09:26

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
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 13:58	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	108		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C6 PFDA	114		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C5 PFHxA	115		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C4 PFHpA	119		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C8 PFOA	119		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C9 PFNA	119		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C7 PFUnA	116		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C2 PFDoA	116		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C4 PFBA	117		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C5 PFPeA	129		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C3 PFBS	120		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C3 PFHxS	121		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C8 PFOS	121		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C2-4:2-FTS	152		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C2-6:2-FTS	151		50 - 200			01/12/25 14:23	01/13/25 13:58	1
13C2-8:2-FTS	126		50 - 200			01/12/25 14:23	01/13/25 13:58	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		01/13/25 06:14	01/14/25 02:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1

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Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)

Lab Sample ID: 380-129624-3

Date Collected: 01/08/25 11:20
Date Received: 01/10/25 09:26

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	117		70 - 130			01/13/25 06:14	01/14/25 02:05	1
13C2 PFHxA	117		70 - 130			01/13/25 06:14	01/14/25 02:05	1
13C2 PFDA	117		70 - 130			01/13/25 06:14	01/14/25 02:05	1
13C3-GenX	112		70 - 130			01/13/25 06:14	01/14/25 02:05	1

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

Lab Sample ID: 380-129624-4

Date Collected: 01/08/25 10:40
Date Received: 01/10/25 09:26

Matrix: Water
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		01/12/25 14:23	01/13/25 14:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-4

Date Collected: 01/08/25 10:40

Matrix: Water

Date Received: 01/10/25 09:26

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-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C6 PFDA	116		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C5 PFHxA	120		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C4 PFHpA	125		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C8 PFOA	122		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C9 PFNA	122		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C7 PFUnA	116		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C2 PFDoA	115		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C4 PFBA	118		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C5 PFPeA	128		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C3 PFBS	120		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C3 PFHxS	124		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C8 PFOS	119		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C2-4:2-FTS	151		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C2-6:2-FTS	149		50 - 200	01/12/25 14:23	01/13/25 14:08	1
13C2-8:2-FTS	128		50 - 200	01/12/25 14:23	01/13/25 14:08	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		01/13/25 06:14	01/14/25 02:15	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1

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Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-4

Date Collected: 01/08/25 10:40

Matrix: Water

Date Received: 01/10/25 09:26

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	116		70 - 130			01/13/25 06:14	01/14/25 02:15	1
13C2 PFHxA	118		70 - 130			01/13/25 06:14	01/14/25 02:15	1
13C2 PFDA	120		70 - 130			01/13/25 06:14	01/14/25 02:15	1
13C3-GenX	115		70 - 130			01/13/25 06:14	01/14/25 02:15	1

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

Lab Sample ID: 380-129624-5

Date Collected: 01/08/25 10:45

Matrix: Water

Date Received: 01/10/25 09:26

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-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-5

Date Collected: 01/08/25 10:45

Matrix: Water

Date Received: 01/10/25 09:26

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
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:18	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C6 PFDA	119		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C5 PFHxA	119		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C4 PFHpA	121		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C8 PFOA	121		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C9 PFNA	121		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C7 PFUnA	118		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C2 PFDoA	120		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C4 PFBA	114		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C5 PFPeA	118		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C3 PFBS	123		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C3 PFHxS	124		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C8 PFOS	124		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C2-4:2-FTS	143		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C2-6:2-FTS	148		50 - 200			01/12/25 14:23	01/13/25 14:18	1
13C2-8:2-FTS	133		50 - 200			01/12/25 14:23	01/13/25 14:18	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		01/13/25 06:14	01/14/25 02:24	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-5

Date Collected: 01/08/25 10:45

Matrix: Water

Date Received: 01/10/25 09:26

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 (PFTTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	120		70 - 130			01/13/25 06:14	01/14/25 02:24	1
13C2 PFHxA	117		70 - 130			01/13/25 06:14	01/14/25 02:24	1
13C2 PFDA	118		70 - 130			01/13/25 06:14	01/14/25 02:24	1
13C3-GenX	114		70 - 130			01/13/25 06:14	01/14/25 02:24	1

**Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-129624-6

Date Collected: 01/08/25 11:20

Matrix: Water

Date Received: 01/10/25 09:26

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		01/12/25 14:23	01/13/25 14:27	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-129624-6

Date Collected: 01/08/25 11:20

Matrix: Water

Date Received: 01/10/25 09:26

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		01/12/25 14:23	01/13/25 14:27	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/12/25 14:23	01/13/25 14:27	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C6 PFDA	114		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C5 PFHxA	112		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C4 PFHpA	116		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C8 PFOA	116		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C9 PFNA	117		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C7 PFUnA	113		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C2 PFDoA	113		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C4 PFBA	118		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C5 PFPeA	123		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C3 PFBS	117		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C3 PFHxS	123		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C8 PFOS	117		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C2-4:2-FTS	149		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C2-6:2-FTS	147		50 - 200			01/12/25 14:23	01/13/25 14:27	1
13C2-8:2-FTS	126		50 - 200			01/12/25 14:23	01/13/25 14:27	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		01/13/25 06:14	01/14/25 02:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/13/25 06:14	01/14/25 02:34	1

Client Sample Results

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

Job ID: 380-129624-1
 SDG: Weekly PFAS

**Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-129624-6

Date Collected: 01/08/25 11:20

Matrix: Water

Date Received: 01/10/25 09:26

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		01/13/25 06:14	01/14/25 02:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	122		70 - 130			01/13/25 06:14	01/14/25 02:34	1
13C2 PFHxA	124		70 - 130			01/13/25 06:14	01/14/25 02:34	1
13C2 PFDA	123		70 - 130			01/13/25 06:14	01/14/25 02:34	1
13C3-GenX	121		70 - 130			01/13/25 06:14	01/14/25 02:34	1

Action Limit Summary

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
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: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
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: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-3

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	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<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: 380-129624-1
SDG: Weekly PFAS

Client Sample ID: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-3

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	RL	Method	Prep Type
				Limit			
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: 380-129624-4

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	RL	Method	Prep Type
				Limit			
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 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-5

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	RL	Method	Prep Type
				Limit			
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: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-5

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	RL	Method	Prep Type
				Limit			
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 WELLS PUMPS 1&2 (260)
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-129624-6

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	RL	Method	Prep Type
				Limit			
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: 380-129624-1
 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)
380-129624-1	AIEA GULCH WELLS PUMP 1 (	120	121	114	107
380-129624-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	112	118	115	117
380-129624-1 MSD	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	112	117	114	110
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	107	112	113	111
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	117	117	117	112

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)
380-129624-4	FB AIEA GULCH WELLS PUMP	116	118	120	115
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	120	117	118	114
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	122	124	123	121
LCS 380-127501/26-A	Lab Control Sample	119	125	118	118
MBL 380-127501/24-A	Method Blank	113	119	114	117
MRL 380-127501/25-A	Lab Control Sample	111	109	114	105

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: 380-129624-1
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)	PFDoA (50-200)
380-129624-1	AIEA GULCH WELLS PUMP 1 (	108	116	115	120	121	121	120	121
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	105	115	114	119	121	119	120	119
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	108	114	115	119	119	119	116	116

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)
380-129624-1	AIEA GULCH WELLS PUMP 1 (	116	126	116	119	122	141	137	128
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	114	121	118	121	121	137	139	125
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	117	129	120	121	121	152	151	126

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- 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)	PFDoA (50-200)
380-128700-B-4-A MS	Matrix Spike	116	111	112	114	114	116	117	112
380-128700-C-4-A MSD	Matrix Spike Duplicate	112	117	110	115	117	118	119	116
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	106	116	120	125	122	122	116	115
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	112	119	119	121	121	121	118	120
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	99	114	112	116	116	117	113	113
LCS 380-127418/22-A	Lab Control Sample	112	120	125	126	124	121	124	120
MBL 380-127418/20-A	Method Blank	107	119	124	124	123	121	116	122
MRL 380-127418/21-A	Lab Control Sample	99	112	115	117	115	114	115	113

Isotope Dilution Summary

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

Job ID: 380-129624-1
 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	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-128700-B-4-A MS	Matrix Spike	116	132	115	117	116	124	124	117
380-128700-C-4-A MSD	Matrix Spike Duplicate	114	127	114	117	115	130	130	119
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	118	128	120	124	119	151	149	128
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	114	118	123	124	124	143	148	133
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	118	123	117	123	117	149	147	126
LCS 380-127418/22-A	Lab Control Sample	118	128	124	128	122	138	139	127
MBL 380-127418/20-A	Method Blank	117	127	126	128	124	150	147	132
MRL 380-127418/21-A	Lab Control Sample	121	118	117	120	118	146	137	128

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- 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: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-127418/20-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127418

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/12/25 14:23	01/13/25 10:37	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C6 PFDA	119		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C5 PFHxA	124		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C4 PFHpA	124		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C8 PFOA	123		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C9 PFNA	121		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C7 PFUnA	116		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C2 PFDoA	122		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C4 PFBA	117		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C5 PFPeA	127		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C3 PFBS	126		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C3 PFHxS	128		50 - 200	01/12/25 14:23	01/13/25 10:37	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-127418/20-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127418

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	124		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C2-4:2-FTS	150		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C2-6:2-FTS	147		50 - 200	01/12/25 14:23	01/13/25 10:37	1
13C2-8:2-FTS	132		50 - 200	01/12/25 14:23	01/13/25 10:37	1

Lab Sample ID: LCS 380-127418/22-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	54.8		ng/L		91	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	52.9		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	55.4		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	55.0		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	58.3		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	57.3		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	57.3		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	53.7		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	55.6		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	54.6		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	60.2	54.3		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	57.4		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	54.2		ng/L		90	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	57.3		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	55.5		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	58.6		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	57.0		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	56.8		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	55.3		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.2	52.9		ng/L		88	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	58.2		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	56.6		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	55.3		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	56.0		ng/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-127418/22-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	56.6		ng/L		94	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	112		50 - 200				
13C6 PFDA	120		50 - 200				
13C5 PFHxA	125		50 - 200				
13C4 PFHpA	126		50 - 200				
13C8 PFOA	124		50 - 200				
13C9 PFNA	121		50 - 200				
13C7 PFUnA	124		50 - 200				
13C2 PFDoA	120		50 - 200				
13C4 PFBA	118		50 - 200				
13C5 PFPeA	128		50 - 200				
13C3 PFBS	124		50 - 200				
13C3 PFHxS	128		50 - 200				
13C8 PFOS	122		50 - 200				
13C2-4:2-FTS	138		50 - 200				
13C2-6:2-FTS	139		50 - 200				
13C2-8:2-FTS	127		50 - 200				

Lab Sample ID: MRL 380-127418/21-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127418

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.86	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.79	J	ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.98	J	ng/L		99	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.97	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.06	J	ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.02	J	ng/L		100	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.96	J	ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	1.93	J	ng/L		96	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	1.88	J	ng/L		94	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-127418/21-A
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127418

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	1.97	J	ng/L		98	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.20	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.22	J	ng/L		111	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.89	J	ng/L		94	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.96	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.02	J	ng/L		100	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.95	J	ng/L		97	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.97	J	ng/L		98	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	99		50 - 200
13C6 PFDA	112		50 - 200
13C5 PFHxA	115		50 - 200
13C4 PFHpA	117		50 - 200
13C8 PFOA	115		50 - 200
13C9 PFNA	114		50 - 200
13C7 PFUnA	115		50 - 200
13C2 PFDoA	113		50 - 200
13C4 PFBA	121		50 - 200
13C5 PFPeA	118		50 - 200
13C3 PFBS	117		50 - 200
13C3 PFHxS	120		50 - 200
13C8 PFOS	118		50 - 200
13C2-4:2-FTS	146		50 - 200
13C2-6:2-FTS	137		50 - 200
13C2-8:2-FTS	128		50 - 200

Lab Sample ID: 380-128700-B-4-A MS
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 127418

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	103		ng/L		85	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	96.6		ng/L		80	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	105		ng/L		87	70 - 130

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-128700-B-4-A MS
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 127418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		120	102		ng/L		85	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	111		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	110		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	113		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	104		ng/L		86	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	109		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	110		ng/L		90	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	105		ng/L		87	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	108		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	109		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	108		ng/L		90	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	110		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	106		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	113		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	91.5		ng/L		76	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	102		ng/L		85	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	118		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	110		ng/L		91	70 - 130
Perfluoropentanoic acid (PFPeA)	2.2		120	100		ng/L		82	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	107		ng/L		89	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	106		ng/L		88	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	116		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	112		50 - 200
13C4 PFHpA	114		50 - 200
13C8 PFOA	114		50 - 200
13C9 PFNA	116		50 - 200
13C7 PFUnA	117		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	116		50 - 200
13C5 PFPeA	132		50 - 200
13C3 PFBS	115		50 - 200
13C3 PFHxS	117		50 - 200
13C8 PFOS	116		50 - 200

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-128700-B-4-A MS
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 127418

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	124		50 - 200
13C2-6:2-FTS	124		50 - 200
13C2-8:2-FTS	117		50 - 200

Lab Sample ID: 380-128700-C-4-A MSD
Matrix: Water
Analysis Batch: 127520

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 127418

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	104		ng/L		87	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	101		ng/L		84	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	108		ng/L		90	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	105		ng/L		88	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	112		ng/L		92	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		120	110		ng/L		91	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	113		ng/L		94	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	108		ng/L		89	70 - 130	4	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	111		ng/L		91	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	117		ng/L		96	70 - 130	6	30
Perfluorononanoic acid (PFNA)	<2.0		120	106		ng/L		88	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	110		ng/L		91	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		120	111		ng/L		91	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	107		ng/L		89	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		120	112		ng/L		93	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	104		ng/L		86	70 - 130	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	107		ng/L		89	70 - 130	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	107		ng/L		89	70 - 130	6	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	110		ng/L		91	70 - 130	18	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		120	102		ng/L		85	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	116		ng/L		96	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	114		ng/L		95	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	2.2		120	105		ng/L		86	70 - 130	5	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	109		ng/L		91	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	109		ng/L		90	70 - 130	2	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	112		50 - 200
13C6 PFDA	117		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	115		50 - 200
13C8 PFOA	117		50 - 200
13C9 PFNA	118		50 - 200
13C7 PFUnA	119		50 - 200
13C2 PFDoA	116		50 - 200
13C4 PFBA	114		50 - 200
13C5 PFPeA	127		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	117		50 - 200
13C8 PFOS	115		50 - 200
13C2-4:2-FTS	130		50 - 200
13C2-6:2-FTS	130		50 - 200
13C2-8:2-FTS	119		50 - 200

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

Lab Sample ID: MBL 380-127501/24-A
Matrix: Water
Analysis Batch: 127590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127501

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/13/25 06:14	01/13/25 22:44	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	113		70 - 130			01/13/25 06:14	01/13/25 22:44	1
13C2 PFHxA	119		70 - 130			01/13/25 06:14	01/13/25 22:44	1
13C2 PFDA	114		70 - 130			01/13/25 06:14	01/13/25 22:44	1

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QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-127501/24-A
Matrix: Water
Analysis Batch: 127590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127501

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	117		70 - 130	01/13/25 06:14	01/13/25 22:44	1

Lab Sample ID: LCS 380-127501/26-A
Matrix: Water
Analysis Batch: 127590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127501

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.2	50.4		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.2	54.7		ng/L		109	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	53.0		ng/L		105	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	53.5		ng/L		106	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	53.2		ng/L		106	70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	54.3		ng/L		108	70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	51.9		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	50.2	55.2		ng/L		110	70 - 130
Perfluorodecanoic acid (PFDA)	50.2	54.6		ng/L		109	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	55.5		ng/L		111	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	53.2		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	53.7		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	50.2	55.0		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	52.0		ng/L		104	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.2	51.9		ng/L		103	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	50.2	54.7		ng/L		109	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	51.9		ng/L		103	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	53.1		ng/L		106	70 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	119		70 - 130
13C2 PFHxA	125		70 - 130
13C2 PFDA	118		70 - 130
13C3-GenX	118		70 - 130

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-127501/25-A
Matrix: Water
Analysis Batch: 127590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127501

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.96	J	ng/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.26	J	ng/L		113	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.28	J	ng/L		113	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.11	J	ng/L		105	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.28	J	ng/L		113	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.27	J	ng/L		113	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.28	J	ng/L		114	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.27	J	ng/L		113	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.36	J	ng/L		117	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.31	J	ng/L		115	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.12	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.28	J	ng/L		114	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.29	J	ng/L		114	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	2.42	J	ng/L		121	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.01	2.28	J	ng/L		113	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.27	J	ng/L		113	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.13	J	ng/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.18	J	ng/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
d5-NEtFOSAA	111		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	114		70 - 130
13C3-GenX	105		70 - 130

Lab Sample ID: 380-129624-1 MS
Matrix: Drinking Water
Analysis Batch: 127590

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 127501

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		50.2	51.1		ng/L		102	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	54.0		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	53.6		ng/L		107	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	54.7		ng/L		109	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1 MS
Matrix: Drinking Water
Analysis Batch: 127590

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 127501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	55.2		ng/L		110	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	54.9		ng/L		108	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	52.7		ng/L		105	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.2	55.9		ng/L		111	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.2	56.4		ng/L		112	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	53.7		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	52.2		ng/L		104	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	53.5		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.2	53.8		ng/L		107	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	52.4		ng/L		104	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.2	52.3		ng/L		104	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	50.8		ng/L		101	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	<2.0		50.2	52.2		ng/L		104	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	55.1		ng/L		110	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
d5-NEtFOSAA	112		70 - 130
13C2 PFHxA	118		70 - 130
13C2 PFDA	115		70 - 130
13C3-GenX	117		70 - 130

Lab Sample ID: 380-129624-1 MSD
Matrix: Drinking Water
Analysis Batch: 127590

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 127501

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		50.3	48.2		ng/L		96	70 - 130	6	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.3	55.1		ng/L		110	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.3	50.2		ng/L		100	70 - 130	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.3	52.8		ng/L		105	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.3	51.6		ng/L		103	70 - 130	7	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.3	53.7		ng/L		106	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.3	52.6		ng/L		104	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		50.3	55.0		ng/L		109	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		50.3	51.7		ng/L		103	70 - 130	9	30

QC Sample Results

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1 MSD

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 127590

Prep Batch: 127501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.3	57.6		ng/L		114	70 - 130	7	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.3	56.7		ng/L		113	70 - 130	8	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.3	52.5		ng/L		104	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		50.3	53.4		ng/L		106	70 - 130	1	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.3	52.2		ng/L		104	70 - 130	0	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.3	51.5		ng/L		102	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.3	53.3		ng/L		106	70 - 130	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.3	53.7		ng/L		107	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.3	53.6		ng/L		107	70 - 130	3	30
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
d5-NEtFOSAA	112		70 - 130								
13C2 PFHxA	117		70 - 130								
13C2 PFDA	114		70 - 130								
13C3-GenX	110		70 - 130								

QC Association Summary

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

Job ID: 380-129624-1
SDG: Weekly PFAS

LCMS

Prep Batch: 127418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-129624-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	533	
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	533	
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	
MBL 380-127418/20-A	Method Blank	Total/NA	Water	533	
LCS 380-127418/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-127418/21-A	Lab Control Sample	Total/NA	Water	533	
380-128700-B-4-A MS	Matrix Spike	Total/NA	Water	533	
380-128700-C-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 127501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-129624-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	537.1 DW	
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	537.1 DW	
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1 DW	
MBL 380-127501/24-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-127501/26-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-127501/25-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-129624-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-129624-1 MSD	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 127520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-129624-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	127418
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	127418
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	127418
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	533	127418
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	533	127418
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	127418
MBL 380-127418/20-A	Method Blank	Total/NA	Water	533	127418
LCS 380-127418/22-A	Lab Control Sample	Total/NA	Water	533	127418
MRL 380-127418/21-A	Lab Control Sample	Total/NA	Water	533	127418
380-128700-B-4-A MS	Matrix Spike	Total/NA	Water	533	127418
380-128700-C-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	127418

Analysis Batch: 127590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-129624-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	127501
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	127501
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1	127501
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	537.1	127501
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	537.1	127501
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1	127501
MBL 380-127501/24-A	Method Blank	Total/NA	Water	537.1	127501
LCS 380-127501/26-A	Lab Control Sample	Total/NA	Water	537.1	127501
MRL 380-127501/25-A	Lab Control Sample	Total/NA	Water	537.1	127501

QC Association Summary

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

Job ID: 380-129624-1
SDG: Weekly PFAS

LCMS (Continued)

Analysis Batch: 127590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-129624-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	127501
380-129624-1 MSD	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	127501

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Lab Chronicle

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

Job ID: 380-129624-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-1

Date Collected: 01/08/25 10:40

Matrix: Drinking Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 13:39
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/13/25 23:13

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

Lab Sample ID: 380-129624-2

Date Collected: 01/08/25 10:45

Matrix: Drinking Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 13:49
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/14/25 01:55

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)

Lab Sample ID: 380-129624-3

Date Collected: 01/08/25 11:20

Matrix: Drinking Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 13:58
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/14/25 02:05

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

Lab Sample ID: 380-129624-4

Date Collected: 01/08/25 10:40

Matrix: Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 14:08
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/14/25 02:15

Lab Chronicle

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

Job ID: 380-129624-1
 SDG: Weekly PFAS

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

Lab Sample ID: 380-129624-5

Date Collected: 01/08/25 10:45

Matrix: Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 14:18
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/14/25 02:24

**Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-129624-6

Date Collected: 01/08/25 11:20

Matrix: Water

Date Received: 01/10/25 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			127418	N8NE	EA POM	01/12/25 14:23
Total/NA	Analysis	533		1	127520	SZ9R	EA POM	01/13/25 14:27
Total/NA	Prep	537.1 DW			127501	G9MN	EA POM	01/13/25 06:14
Total/NA	Analysis	537.1		1	127590	SZ9R	EA POM	01/14/25 02:34

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: 380-129624-1
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	01-31-25

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Method Summary

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

Job ID: 380-129624-1
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: 380-129624-1
SDG: Weekly PFAS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-129624-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	01/08/25 10:40	01/10/25 09:26	HI0000331
380-129624-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	01/08/25 10:45	01/10/25 09:26	HI0000331
380-129624-3	AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Drinking Water	01/08/25 11:20	01/10/25 09:26	HI0000331
380-129624-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	01/08/25 10:40	01/10/25 09:26	HI0000331
380-129624-5	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	01/08/25 10:45	01/10/25 09:26	HI0000331
380-129624-6	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	01/08/25 11:20	01/10/25 09:26	HI0000331

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

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler Olaf Happe		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-27941-2757 2	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail Rachelle.Arada@et.euronisus.com		State of Origin:		Page: Page 2 of 2	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes	
Address: 630 South Beretania Street, Chemistry Lab		Due Date Requested		Perform MS/MSD (Yes or No)		Total Number of Containers		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z other (specify)	
City: Honolulu		TAT Requested (days):		Field Filtered Sample (Yes or No)		533 - All Analytes		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
State, Zip: HI, 96843		Compliance Project: Δ No		SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs		525 2, PREC - (MOD) 525plus PLUS TICs		Special Instructions/Note:	
Phone: 808-748-5843 (tel)		PO #: C20525101 exp 05312023		80158_GRO_LL - (MOD) GRO		537 1_DW_PREC - 637 1 Full List		chlorinated	
Email: kiwamoto@hbws.org		WC #:		80158_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		537 1_DW_PREC - 637 1 Full List		chlorinated	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		80158_GRO_LL - (MOD) GRO		533 - All Analytes			
Site: SSOW#:		Sample Date		R A Q DA Y I		533 - All Analytes			
Sample Identification		Sample Time		R A Q DA Y I		533 - All Analytes			
AIEA GULCH WELLS PUMP 1		1040		3 3		533 - All Analytes			
AIEA GULCH WELLS PUMP 2		1045		3 3		533 - All Analytes			
AIEA WELLS PUMPS 1&2 (260)		1120		3 3		533 - All Analytes			
FB AIEA GULCH WELLS PUMP 1		1040		1 1		533 - All Analytes			
FB AIEA GULCH WELLS PUMP 2		1045		1 1		533 - All Analytes			
FB AIEA WELLS PUMPS 1&2 (260)		1120		1 1		533 - All Analytes		380-129624 COC	
Possible Hazard Identification		Date		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements		Method of Shipment: FedEx 7113 2489 7561	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date/Time: 1-9-25 1140		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements		Date/Time: 1/10/25 926	
Deliverable Requested 1, II, III IV, Other (specify)		Date/Time: 1-9-25 1140		Received by: [Signature]		Company: HBWS		Date/Time: 1/10/25 926	
Empty Kit Relinquished by		Date/Time: 1-9-25 1140		Received by: [Signature]		Company: HBWS		Date/Time: 1/10/25 926	
Relinquished by		Date/Time: 1-9-25 1140		Received by: [Signature]		Company: HBWS		Date/Time: 1/10/25 926	
Relinquished by		Date/Time: 1-9-25 1140		Received by: [Signature]		Company: HBWS		Date/Time: 1/10/25 926	
Custody Seals intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: (Q31A) 612+0.3=65 Gel frozen		Ver: 01/16/2019			



ORIGIN D'HIKA (808) 748-5840
BWS CHEM/LAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 08JAN25
ACTWGT 62.00 LB
CAD: 258050552/JINET4535
DIMS 15x18x24 IN
BILL RECIPIENT

58CJ115046/C6CA

TO **EUROFINS RECEIVING DEPARTMENT**
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF
INV. PC: DEPT.



FRI - 10 JAN 12:00P
PRIORITY OVERNIGHT

5 of 5

MPS# 7713 2489 7572

Mstr# 7713 2489 7539

0263

91768

CA-US ONT

WM ONTA



6180-174-2-2-2-2-2
1/10/25 9:28
41101

After printing this label
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

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ORIGIN ID:HIKA (808) 748-5840
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941 CORPORATE CENTER DR

POMONA CA 91768

REF: (626) 386-1100
INV. PC:

58CJ115046/C6C4

DEPT:



FRI - 10 JAN 12:00P
PRIORITY OVERNIGHT

3 of 5

MPS# **7713 2489 7550**

Mstr# **7713 2489 7539**

WM ONTA

91768

CA-US ONT



6/8/21/7-5-2-2 = 7-3 (Gr2)
4401 1/10/25 9:28

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CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-129624-1

SDG Number: Weekly PFAS

Login Number: 129624

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

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

