

ANALYTICAL REPORT

PREPARED FOR

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Generated 12/11/2024 10:15:44 AM

JOB DESCRIPTION

RED-HILL
Weekly PFAS

JOB NUMBER

380-125052-1

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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Definitions/Glossary

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

Job ID: 380-125052-1
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: 380-125052-1

Job ID: 380-125052-1

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Job Narrative 380-125052-1

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 12/5/2024 10:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 0.5°C, 0.8°C and 1.1°C.

PFAS

Methods EPA 537.1 and EPA 533 are two distinct methods for the analysis of PFAS in drinking water. The analyses are conducted on differing instrumentation, with calibrations, extraction solvents and sample preservatives being dissimilar among the two methods. Therefore it is probable and not unexpected to see the methods having slight variations in analytical results. HALAWA WELLS UNITS 1&2 P1 (380-125052-1)

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: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.2		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-4

No Detections.

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

No Detections.

Client Sample ID: FB HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-6

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-7

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-8

No Detections.

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-9

No Detections.

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-125052-10

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: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-1

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 20:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorohexanoic acid (PFHxA)	2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoropentanoic acid (PFPeA)	2.2		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 20:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C6 PFDA	87		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C5 PFHxA	91		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C4 PFHpA	92		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C8 PFOA	86		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C9 PFNA	82		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C7 PFUnA	93		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C2 PFDoA	102		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C4 PFBA	100		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C5 PFPeA	102		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C3 PFBS	105		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C3 PFHxS	106		50 - 200	12/09/24 04:22	12/09/24 20:13	1

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Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-1

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	108		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C2-4:2-FTS	134		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C2-6:2-FTS	115		50 - 200	12/09/24 04:22	12/09/24 20:13	1
13C2-8:2-FTS	112		50 - 200	12/09/24 04:22	12/09/24 20:13	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		12/06/24 13:57	12/07/24 19:11	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorooctanoic acid (PFOA)	2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:11	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
d5-NEtFOSAA	112		70 - 130	12/06/24 13:57	12/07/24 19:11	1		
13C2 PFHxA	113		70 - 130	12/06/24 13:57	12/07/24 19:11	1		
13C2 PFDA	106		70 - 130	12/06/24 13:57	12/07/24 19:11	1		
13C3-GenX	109		70 - 130	12/06/24 13:57	12/07/24 19:11	1		

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 21:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1

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Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 21:59	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 21:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	61		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C6 PFDA	80		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C5 PFHxA	72		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C4 PFHpA	74		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C8 PFOA	71		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C9 PFNA	74		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C7 PFUnA	88		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C2 PFDoA	98		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C4 PFBA	78		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C5 PFPeA	76		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C3 PFBS	101		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C3 PFHxS	102		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C8 PFOS	109		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C2-4:2-FTS	125		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C2-6:2-FTS	111		50 - 200	12/09/24 04:22	12/09/24 21:59	1
13C2-8:2-FTS	114		50 - 200	12/09/24 04:22	12/09/24 21:59	1

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

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		12/06/24 13:57	12/07/24 16:52	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 16:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			12/06/24 13:57	12/07/24 16:52	1
13C2 PFHxA	112		70 - 130			12/06/24 13:57	12/07/24 16:52	1
13C2 PFDA	106		70 - 130			12/06/24 13:57	12/07/24 16:52	1
13C3-GenX	106		70 - 130			12/06/24 13:57	12/07/24 16:52	1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 22:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	73		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C6 PFDA	95		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C5 PFHxA	88		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C4 PFHpA	86		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C8 PFOA	88		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C9 PFNA	89		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C7 PFUnA	103		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C2 PFDoA	106		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C4 PFBA	90		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C5 PFPeA	95		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C3 PFBS	99		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C3 PFHxS	104		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C8 PFOS	108		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C2-4:2-FTS	137		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C2-6:2-FTS	120		50 - 200	12/09/24 04:22	12/09/24 22:20	1
13C2-8:2-FTS	121		50 - 200	12/09/24 04:22	12/09/24 22:20	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		12/06/24 13:57	12/07/24 19:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130			12/06/24 13:57	12/07/24 19:22	1
13C2 PFHxA	107		70 - 130			12/06/24 13:57	12/07/24 19:22	1
13C2 PFDA	105		70 - 130			12/06/24 13:57	12/07/24 19:22	1
13C3-GenX	103		70 - 130			12/06/24 13:57	12/07/24 19:22	1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-4

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 22:31	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-4

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 22:31	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	76		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C6 PFDA	100		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C5 PFHxA	84		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C4 PFHpA	92		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C8 PFOA	93		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C9 PFNA	97		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C7 PFUnA	106		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C2 PFDoA	112		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C4 PFBA	93		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C5 PFPeA	95		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C3 PFBS	106		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C3 PFHxS	105		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C8 PFOS	111		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C2-4:2-FTS	127		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C2-6:2-FTS	113		50 - 200	12/09/24 04:22	12/09/24 22:31	1
13C2-8:2-FTS	116		50 - 200	12/09/24 04:22	12/09/24 22:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-4

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130			12/06/24 13:57	12/07/24 19:32	1
13C2 PFHxA	119		70 - 130			12/06/24 13:57	12/07/24 19:32	1
13C2 PFDA	113		70 - 130			12/06/24 13:57	12/07/24 19:32	1
13C3-GenX	116		70 - 130			12/06/24 13:57	12/07/24 19:32	1

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 22:41	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:41	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	79		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C6 PFDA	90		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C5 PFHxA	89		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C4 PFHpA	92		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C8 PFOA	85		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C9 PFNA	84		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C7 PFUnA	98		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C2 PFDoA	103		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C4 PFBA	95		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C5 PFPeA	98		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C3 PFBS	102		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C3 PFHxS	103		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C8 PFOS	107		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C2-4:2-FTS	126		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C2-6:2-FTS	114		50 - 200			12/09/24 04:22	12/09/24 22:41	1
13C2-8:2-FTS	119		50 - 200			12/09/24 04:22	12/09/24 22:41	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		12/06/24 13:57	12/07/24 19:43	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	112		70 - 130			12/06/24 13:57	12/07/24 19:43	1
13C2 PFHxA	110		70 - 130			12/06/24 13:57	12/07/24 19:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C2 PFDA	108		70 - 130	12/06/24 13:57	12/07/24 19:43	1
¹³ C3-GenX	101		70 - 130	12/06/24 13:57	12/07/24 19:43	1

Client Sample ID: FB HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-6

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 22:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 22:50	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
¹³ C3 HFPO-DA	85		50 - 200	12/09/24 04:22	12/09/24 22:50	1		
¹³ C6 PFDA	112		50 - 200	12/09/24 04:22	12/09/24 22:50	1		
¹³ C5 PFHxA	101		50 - 200	12/09/24 04:22	12/09/24 22:50	1		
¹³ C4 PFHpA	112		50 - 200	12/09/24 04:22	12/09/24 22:50	1		

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-6

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	109		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C9 PFNA	110		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C7 PFUnA	115		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C2 PFDoA	120		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C4 PFBA	114		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C5 PFPeA	116		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C3 PFBS	106		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C3 PFHxS	105		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C8 PFOS	110		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C2-4:2-FTS	136		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C2-6:2-FTS	123		50 - 200	12/09/24 04:22	12/09/24 22:50	1
13C2-8:2-FTS	123		50 - 200	12/09/24 04:22	12/09/24 22:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130	12/06/24 13:57	12/07/24 19:54	1
13C2 PFHxA	112		70 - 130	12/06/24 13:57	12/07/24 19:54	1
13C2 PFDA	106		70 - 130	12/06/24 13:57	12/07/24 19:54	1
13C3-GenX	101		70 - 130	12/06/24 13:57	12/07/24 19:54	1

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-7

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 23:00	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C6 PFDA	114		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C5 PFHxA	103		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C4 PFHpA	106		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C8 PFOA	109		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C9 PFNA	112		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C7 PFUnA	117		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C2 PFDoA	120		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C4 PFBA	111		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C5 PFPeA	117		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C3 PFBS	100		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C3 PFHxS	105		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C8 PFOS	107		50 - 200	12/09/24 04:22	12/09/24 23:00	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-7

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	130		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C2-6:2-FTS	116		50 - 200	12/09/24 04:22	12/09/24 23:00	1
13C2-8:2-FTS	119		50 - 200	12/09/24 04:22	12/09/24 23:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	104		70 - 130			12/06/24 13:57	12/07/24 20:05	1
13C2 PFHxA	104		70 - 130			12/06/24 13:57	12/07/24 20:05	1
13C2 PFDA	103		70 - 130			12/06/24 13:57	12/07/24 20:05	1
13C3-GenX	100		70 - 130			12/06/24 13:57	12/07/24 20:05	1

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-8

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 23:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-8

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C6 PFDA	116		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C5 PFHxA	105		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C4 PFHpA	111		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C8 PFOA	108		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C9 PFNA	111		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C7 PFUnA	117		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C2 PFDoA	122		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C4 PFBA	111		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C5 PFPeA	116		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C3 PFBS	102		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C3 PFHxS	102		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C8 PFOS	103		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C2-4:2-FTS	124		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C2-6:2-FTS	119		50 - 200	12/09/24 04:22	12/09/24 23:10	1
13C2-8:2-FTS	116		50 - 200	12/09/24 04:22	12/09/24 23:10	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		12/06/24 13:57	12/07/24 20:15	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-8

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			12/06/24 13:57	12/07/24 20:15	1
13C2 PFHxA	111		70 - 130			12/06/24 13:57	12/07/24 20:15	1
13C2 PFDA	106		70 - 130			12/06/24 13:57	12/07/24 20:15	1
13C3-GenX	101		70 - 130			12/06/24 13:57	12/07/24 20:15	1

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-9

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 23:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-9

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 23:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C6 PFDA	119		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C5 PFHxA	108		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C4 PFHpA	116		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C8 PFOA	112		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C9 PFNA	115		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C7 PFUnA	122		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C2 PFDoA	124		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C4 PFBA	108		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C5 PFPeA	110		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C3 PFBS	99		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C3 PFHxS	106		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C8 PFOS	107		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C2-4:2-FTS	125		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C2-6:2-FTS	113		50 - 200	12/09/24 04:22	12/09/24 23:20	1
13C2-8:2-FTS	122		50 - 200	12/09/24 04:22	12/09/24 23:20	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		12/06/24 13:57	12/07/24 20:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-9

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			12/06/24 13:57	12/07/24 20:26	1
13C2 PFHxA	114		70 - 130			12/06/24 13:57	12/07/24 20:26	1
13C2 PFDA	109		70 - 130			12/06/24 13:57	12/07/24 20:26	1
13C3-GenX	107		70 - 130			12/06/24 13:57	12/07/24 20:26	1

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-125052-10

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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		12/09/24 04:22	12/09/24 23:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-125052-10

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/09/24 04:22	12/09/24 23:29	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C6 PFDA	115		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C5 PFHxA	105		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C4 PFHpA	113		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C8 PFOA	111		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C9 PFNA	114		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C7 PFUnA	121		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C2 PFDoA	123		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C4 PFBA	108		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C5 PFPeA	107		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C3 PFBS	103		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C3 PFHxS	108		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C8 PFOS	110		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C2-4:2-FTS	128		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C2-6:2-FTS	116		50 - 200			12/09/24 04:22	12/09/24 23:29	1
13C2-8:2-FTS	119		50 - 200			12/09/24 04:22	12/09/24 23:29	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		12/06/24 13:57	12/07/24 20:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/06/24 13:57	12/07/24 20:37	1

Client Sample Results

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

Job ID: 380-125052-1
 SDG: Weekly PFAS

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-125052-10

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

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		12/06/24 13:57	12/07/24 20:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	113		70 - 130			12/06/24 13:57	12/07/24 20:37	1
13C2 PFHxA	120		70 - 130			12/06/24 13:57	12/07/24 20:37	1
13C2 PFDA	114		70 - 130			12/06/24 13:57	12/07/24 20:37	1
13C3-GenX	111		70 - 130			12/06/24 13:57	12/07/24 20:37	1

Action Limit Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-1

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)	2.4		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		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)	2.8		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

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 GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

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
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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: AIEA GULCH WELLS PUMP 2 (Continued)

Lab Sample ID: 380-125052-3

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			
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) P2

Lab Sample ID: 380-125052-4

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: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

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
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

Action Limit Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-6

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

Client Sample ID: FB AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-7

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	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

Lab Sample ID: 380-125052-8

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	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

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Action Limit Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB AIEA GULCH WELLS PUMP 2 (Continued)

Lab Sample ID: 380-125052-8

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
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) P2

Lab Sample ID: 380-125052-9

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 KA'AMILO WELLS

Lab Sample ID: 380-125052-10

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: 380-125052-1
 SDG: Weekly PFAS

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-125052-1	HALAWA WELLS UNITS 1&2 P	112	113	106	109
380-125052-2	AIEA GULCH WELLS PUMP 1	105	112	106	106
380-125052-3	AIEA GULCH WELLS PUMP 2	108	107	105	103
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	106	119	113	116
380-125052-5	KA'AMILO WELLS	112	110	108	101
380-125052-5 MS	KA'AMILO WELLS	103	106	104	101
380-125052-5 MSD	KA'AMILO WELLS	102	111	100	103
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	108	112	106	101
380-125052-7	FB AIEA GULCH WELLS PUMP 1	104	104	103	100
380-125052-8	FB AIEA GULCH WELLS PUMP 2	105	111	106	101
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	102	114	109	107
380-125052-10	FB KA'AMILO WELLS	113	120	114	111
LCS 380-122455/22-A	Lab Control Sample	100	106	107	102
MBL 380-122455/20-A	Method Blank	108	102	101	93
MRL 380-122455/21-A	Lab Control Sample	107	114	109	104

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: 380-125052-1
SDG: Weekly PFAS

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-125052-1	HALAWA WELLS UNITS 1&2 P1	80	87	91	92	86	82	93	102
380-125052-1 MS	HALAWA WELLS UNITS 1&2 P1	87	96	91	98	89	92	107	111
380-125052-1 MSD	HALAWA WELLS UNITS 1&2 P1	79	85	87	87	79	81	94	104
380-125052-2	AIEA GULCH WELLS PUMP 1	61	80	72	74	71	74	88	98
380-125052-3	AIEA GULCH WELLS PUMP 2	73	95	88	86	88	89	103	106
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	76	100	84	92	93	97	106	112
380-125052-5	KA'AMILO WELLS	79	90	89	92	85	84	98	103
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	85	112	101	112	109	110	115	120
380-125052-7	FB AIEA GULCH WELLS PUMP 1	88	114	103	106	109	112	117	120
380-125052-8	FB AIEA GULCH WELLS PUMP 2	89	116	105	111	108	111	117	122
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	91	119	108	116	112	115	122	124
380-125052-10	FB KA'AMILO WELLS	88	115	105	113	111	114	121	123
LCS 380-122703/22-A	Lab Control Sample	95	116	108	114	112	113	117	120
MBL 380-122703/20-A	Method Blank	84	109	101	104	101	106	109	114
MRL 380-122703/21-A	Lab Control Sample	92	116	109	114	113	116	116	123

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)
380-125052-1	HALAWA WELLS UNITS 1&2 P1	100	102	105	106	108	134	115	112
380-125052-1 MS	HALAWA WELLS UNITS 1&2 P1	104	106	106	105	108	131	119	113
380-125052-1 MSD	HALAWA WELLS UNITS 1&2 P1	102	101	106	111	113	136	122	120
380-125052-2	AIEA GULCH WELLS PUMP 1	78	76	101	102	109	125	111	114
380-125052-3	AIEA GULCH WELLS PUMP 2	90	95	99	104	108	137	120	121
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	93	95	106	105	111	127	113	116
380-125052-5	KA'AMILO WELLS	95	98	102	103	107	126	114	119
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	114	116	106	105	110	136	123	123
380-125052-7	FB AIEA GULCH WELLS PUMP 1	111	117	100	105	107	130	116	119
380-125052-8	FB AIEA GULCH WELLS PUMP 2	111	116	102	102	103	124	119	116
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	108	110	99	106	107	125	113	122
380-125052-10	FB KA'AMILO WELLS	108	107	103	108	110	128	116	119
LCS 380-122703/22-A	Lab Control Sample	110	115	104	105	109	116	113	113
MBL 380-122703/20-A	Method Blank	105	112	100	102	103	128	110	109
MRL 380-122703/21-A	Lab Control Sample	113	119	108	108	111	136	117	117

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

- 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

Job ID: 380-125052-1
SDG: Weekly PFAS

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QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-122703/20-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122703

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		12/09/24 04:22	12/09/24 19:42	1
Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier						
13C3 HFPO-DA	84		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C6 PFDA	109		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C5 PFHxA	101		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C4 PFHpA	104		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C8 PFOA	101		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C9 PFNA	106		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C7 PFUnA	109		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C2 PFDoA	114		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C4 PFBA	105		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C5 PFPeA	112		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C3 PFBS	100		50 - 200	12/09/24 04:22	12/09/24 19:42	1		
13C3 PFHxS	102		50 - 200	12/09/24 04:22	12/09/24 19:42	1		

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-122703/20-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122703

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 PFOS	103		50 - 200	12/09/24 04:22	12/09/24 19:42	1
13C2-4:2-FTS	128		50 - 200	12/09/24 04:22	12/09/24 19:42	1
13C2-6:2-FTS	110		50 - 200	12/09/24 04:22	12/09/24 19:42	1
13C2-8:2-FTS	109		50 - 200	12/09/24 04:22	12/09/24 19:42	1

Lab Sample ID: LCS 380-122703/22-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122703

<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>%Rec Limits</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	108		ng/L		90	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	113		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	109		ng/L		90	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	116		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	113		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	120	110		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	120	114		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	112		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	114		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	120	110		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	120	114		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	113		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	120	113		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	113		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	120	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	111		ng/L		92	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	121		ng/L		101	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	102		ng/L		85	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	118		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	108		ng/L		89	70 - 130
Perfluoropentanoic acid (PFPeA)	120	108		ng/L		90	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	112		ng/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-122703/22-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	111		ng/L		93	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	95		50 - 200				
13C6 PFDA	116		50 - 200				
13C5 PFHxA	108		50 - 200				
13C4 PFHpA	114		50 - 200				
13C8 PFOA	112		50 - 200				
13C9 PFNA	113		50 - 200				
13C7 PFUnA	117		50 - 200				
13C2 PFDoA	120		50 - 200				
13C4 PFBA	110		50 - 200				
13C5 PFPeA	115		50 - 200				
13C3 PFBS	104		50 - 200				
13C3 PFHxS	105		50 - 200				
13C8 PFOS	109		50 - 200				
13C2-4:2-FTS	116		50 - 200				
13C2-6:2-FTS	113		50 - 200				
13C2-8:2-FTS	113		50 - 200				

Lab Sample ID: MRL 380-122703/21-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122703

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.91	J	ng/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.05	J	ng/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.03	J	ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.91	J	ng/L		95	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.17	J	ng/L		108	50 - 150

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QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-122703/21-A
Matrix: Water
Analysis Batch: 122810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122703

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.09	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.09	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.19	J	ng/L		109	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.01	J	ng/L		100	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	92		50 - 200
13C6 PFDA	116		50 - 200
13C5 PFHxA	109		50 - 200
13C4 PFHpA	114		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	116		50 - 200
13C7 PFUnA	116		50 - 200
13C2 PFDoA	123		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	119		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	136		50 - 200
13C2-6:2-FTS	117		50 - 200
13C2-8:2-FTS	117		50 - 200

Lab Sample ID: 380-125052-1 MS
Matrix: Water
Analysis Batch: 122810

Client Sample ID: HALAWA WELLS UNITS 1&2 P1
Prep Type: Total/NA
Prep Batch: 122703

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		121	114		ng/L		94	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	117		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	102		ng/L		84	70 - 130

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-125052-1 MS

Matrix: Water

Analysis Batch: 122810

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Prep Type: Total/NA

Prep Batch: 122703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		121	115		ng/L		96	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	116		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	116		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	118		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	112		ng/L		92	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.4		121	119		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	2.0		121	119		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	116		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.3		121	116		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		121	119		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	115		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	117		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	110		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	115		ng/L		95	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	120		ng/L		99	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	109		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	117		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	114		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	2.2		121	113		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	117		ng/L		97	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	116		ng/L		96	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	87		50 - 200
13C6 PFDA	96		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	89		50 - 200
13C9 PFNA	92		50 - 200
13C7 PFUnA	107		50 - 200
13C2 PFDoA	111		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	106		50 - 200
13C3 PFBS	106		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	108		50 - 200

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-125052-1 MS
Matrix: Water
Analysis Batch: 122810

Client Sample ID: HALAWA WELLS UNITS 1&2 P1
Prep Type: Total/NA
Prep Batch: 122703

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	131		50 - 200
13C2-6:2-FTS	119		50 - 200
13C2-8:2-FTS	113		50 - 200

Lab Sample ID: 380-125052-1 MSD
Matrix: Water
Analysis Batch: 122810

Client Sample ID: HALAWA WELLS UNITS 1&2 P1
Prep Type: Total/NA
Prep Batch: 122703

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		121	111		ng/L		92	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	115		ng/L		95	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	105		ng/L		86	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	118		ng/L		97	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	121		ng/L		99	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<2.0		121	119		ng/L		98	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	117		ng/L		97	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	118		ng/L		96	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	2.4		121	116		ng/L		94	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	2.0		121	119		ng/L		97	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		121	113		ng/L		94	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	2.3		121	117		ng/L		95	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		121	119		ng/L		97	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	114		ng/L		94	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		121	116		ng/L		95	70 - 130	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	119		ng/L		99	70 - 130	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	112		ng/L		92	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	119		ng/L		99	70 - 130	4	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	119		ng/L		98	70 - 130	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	111		ng/L		92	70 - 130	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	116		ng/L		95	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	115		ng/L		95	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	2.2		121	116		ng/L		94	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	113		ng/L		94	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	113		ng/L		93	70 - 130	3	30

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QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	79		50 - 200
13C6 PFDA	85		50 - 200
13C5 PFHxA	87		50 - 200
13C4 PFHpA	87		50 - 200
13C8 PFOA	79		50 - 200
13C9 PFNA	81		50 - 200
13C7 PFUnA	94		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	102		50 - 200
13C5 PFPeA	101		50 - 200
13C3 PFBS	106		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	113		50 - 200
13C2-4:2-FTS	136		50 - 200
13C2-6:2-FTS	122		50 - 200
13C2-8:2-FTS	120		50 - 200

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

Lab Sample ID: MBL 380-122455/20-A
Matrix: Water
Analysis Batch: 122593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122455

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		12/06/24 13:57	12/07/24 16:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/06/24 13:57	12/07/24 16:19	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	108		70 - 130			12/06/24 13:57	12/07/24 16:19	1
13C2 PFHxA	102		70 - 130			12/06/24 13:57	12/07/24 16:19	1
13C2 PFDA	101		70 - 130			12/06/24 13:57	12/07/24 16:19	1

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QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-122455/20-A
Matrix: Water
Analysis Batch: 122593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 122455

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	93	Qualifier	70 - 130	12/06/24 13:57	12/07/24 16:19	1

Lab Sample ID: LCS 380-122455/22-A
Matrix: Water
Analysis Batch: 122593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122455

<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>%Rec Limits</i>
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	25.1	24.4	Qualifier	ng/L	-	98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.1	28.3	Qualifier	ng/L	-	113	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	28.5	Qualifier	ng/L	-	114	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	27.5	Qualifier	ng/L	-	110	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	26.8	Qualifier	ng/L	-	107	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	26.5	Qualifier	ng/L	-	106	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	26.2	Qualifier	ng/L	-	104	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	27.9	Qualifier	ng/L	-	111	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	28.1	Qualifier	ng/L	-	112	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	29.4	Qualifier	ng/L	-	118	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	28.8	Qualifier	ng/L	-	115	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	27.3	Qualifier	ng/L	-	109	70 - 130
Perfluorononanoic acid (PFNA)	25.1	27.9	Qualifier	ng/L	-	111	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	25.3	Qualifier	ng/L	-	101	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	25.8	Qualifier	ng/L	-	103	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	25.1	28.4	Qualifier	ng/L	-	113	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	26.8	Qualifier	ng/L	-	107	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	24.6	Qualifier	ng/L	-	98	70 - 130

<i>Surrogate</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	100	Qualifier	70 - 130
13C2 PFHxA	106	Qualifier	70 - 130
13C2 PFDA	107	Qualifier	70 - 130
13C3-GenX	102	Qualifier	70 - 130

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-122455/21-A
Matrix: Water
Analysis Batch: 122593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 122455

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.32	J	ng/L		116	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.33	J	ng/L		116	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.17	J	ng/L		108	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.27	J	ng/L		114	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.33	J	ng/L		116	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.31	J	ng/L		115	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.37	J	ng/L		118	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.27	J	ng/L		113	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.43	J	ng/L		121	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.32	J	ng/L		116	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.14	J	ng/L		107	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.35	J	ng/L		117	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.07	J	ng/L		103	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.09	J	ng/L		104	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	107		70 - 130
13C2 PFHxA	114		70 - 130
13C2 PFDA	109		70 - 130
13C3-GenX	104		70 - 130

Lab Sample ID: 380-125052-5 MS
Matrix: Water
Analysis Batch: 122593

Client Sample ID: KA'AMILO WELLS
Prep Type: Total/NA
Prep Batch: 122455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	47.9		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	56.3		ng/L		109	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	51.9		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	51.2		ng/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-125052-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-125052-5 MS

Matrix: Water

Analysis Batch: 122593

Client Sample ID: KA'AMILO WELLS

Prep Type: Total/NA

Prep Batch: 122455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	52.8		ng/L		105	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	51.2		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	49.8		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.2	55.5		ng/L		109	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.2	50.9		ng/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	58.2		ng/L		113	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	57.5		ng/L		113	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	52.3		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.2	52.2		ng/L		104	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	47.0		ng/L		94	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	47.9		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	54.9		ng/L		109	70 - 130
11-Chloroeicosasfluoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	<2.0		50.2	50.8		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	48.3		ng/L		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
d5-NEtFOSAA	103		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	101		70 - 130

Lab Sample ID: 380-125052-5 MSD

Matrix: Water

Analysis Batch: 122593

Client Sample ID: KA'AMILO WELLS

Prep Type: Total/NA

Prep Batch: 122455

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		50.2	48.3		ng/L		96	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	57.7		ng/L		112	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	53.2		ng/L		106	70 - 130	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	51.0		ng/L		102	70 - 130	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	50.9		ng/L		101	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	53.5		ng/L		105	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	50.3		ng/L		100	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	57.1		ng/L		112	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	53.8		ng/L		107	70 - 130	6	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-125052-1
 SDG: Weekly PFAS

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

Lab Sample ID: 380-125052-5 MSD

Matrix: Water

Analysis Batch: 122593

Client Sample ID: KA'AMILO WELLS

Prep Type: Total/NA

Prep Batch: 122455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	59.6		ng/L		116	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	57.4		ng/L		113	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	54.0		ng/L		106	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		50.2	54.0		ng/L		108	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	47.9		ng/L		95	70 - 130	2	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.2	48.1		ng/L		96	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	56.8		ng/L		113	70 - 130	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	53.1		ng/L		106	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	49.6		ng/L		99	70 - 130	3	30
Surrogate											
		MSD %Recovery	MSD Qualifier								Limits
d5-NEtFOSAA		102									70 - 130
13C2 PFHxA		111									70 - 130
13C2 PFDA		100									70 - 130
13C3-GenX		103									70 - 130

QC Association Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

LCMS

Prep Batch: 122455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-125052-1	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	537.1 DW	
380-125052-2	AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1 DW	
380-125052-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1 DW	
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1 DW	
380-125052-5	KA'AMILO WELLS	Total/NA	Water	537.1 DW	
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	537.1 DW	
380-125052-7	FB AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1 DW	
380-125052-8	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1 DW	
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1 DW	
380-125052-10	FB KA'AMILO WELLS	Total/NA	Water	537.1 DW	
MBL 380-122455/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-122455/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-122455/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-125052-5 MS	KA'AMILO WELLS	Total/NA	Water	537.1 DW	
380-125052-5 MSD	KA'AMILO WELLS	Total/NA	Water	537.1 DW	

Analysis Batch: 122593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-125052-1	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	537.1	122455
380-125052-2	AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1	122455
380-125052-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1	122455
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1	122455
380-125052-5	KA'AMILO WELLS	Total/NA	Water	537.1	122455
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	537.1	122455
380-125052-7	FB AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1	122455
380-125052-8	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1	122455
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1	122455
380-125052-10	FB KA'AMILO WELLS	Total/NA	Water	537.1	122455
MBL 380-122455/20-A	Method Blank	Total/NA	Water	537.1	122455
LCS 380-122455/22-A	Lab Control Sample	Total/NA	Water	537.1	122455
MRL 380-122455/21-A	Lab Control Sample	Total/NA	Water	537.1	122455
380-125052-5 MS	KA'AMILO WELLS	Total/NA	Water	537.1	122455
380-125052-5 MSD	KA'AMILO WELLS	Total/NA	Water	537.1	122455

Prep Batch: 122703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-125052-1	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	
380-125052-2	AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	
380-125052-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	
380-125052-5	KA'AMILO WELLS	Total/NA	Water	533	
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	
380-125052-7	FB AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	
380-125052-8	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	
380-125052-10	FB KA'AMILO WELLS	Total/NA	Water	533	
MBL 380-122703/20-A	Method Blank	Total/NA	Water	533	
LCS 380-122703/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-122703/21-A	Lab Control Sample	Total/NA	Water	533	
380-125052-1 MS	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	
380-125052-1 MSD	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	

QC Association Summary

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

Job ID: 380-125052-1
SDG: Weekly PFAS

LCMS

Analysis Batch: 122810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-125052-1	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	122703
380-125052-2	AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	122703
380-125052-3	AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	122703
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	122703
380-125052-5	KA'AMILO WELLS	Total/NA	Water	533	122703
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	122703
380-125052-7	FB AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	122703
380-125052-8	FB AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	122703
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	122703
380-125052-10	FB KA'AMILO WELLS	Total/NA	Water	533	122703
MBL 380-122703/20-A	Method Blank	Total/NA	Water	533	122703
LCS 380-122703/22-A	Lab Control Sample	Total/NA	Water	533	122703
MRL 380-122703/21-A	Lab Control Sample	Total/NA	Water	533	122703
380-125052-1 MS	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	122703
380-125052-1 MSD	HALAWA WELLS UNITS 1&2 P1	Total/NA	Water	533	122703

Lab Chronicle

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-1

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 20:13
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 19:11

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-2

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 21:59
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 16:52

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-3

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 22:20
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 19:22

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-4

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 22:31
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 19:32

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-125052-5

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 22:41
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 19:43

Lab Chronicle

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Client Sample ID: FB HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-125052-6

Date Collected: 12/02/24 09:53

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 22:50
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 19:54

Client Sample ID: FB AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-125052-7

Date Collected: 12/02/24 10:27

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 23:00
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 20:05

Client Sample ID: FB AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-125052-8

Date Collected: 12/02/24 10:44

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 23:10
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 20:15

Client Sample ID: FB AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-125052-9

Date Collected: 12/02/24 11:07

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 23:20
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 20:26

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-125052-10

Date Collected: 12/02/24 11:31

Matrix: Water

Date Received: 12/05/24 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			122703	XTD8	EA POM	12/09/24 04:22
Total/NA	Analysis	533		1	122810	SZ9R	EA POM	12/09/24 23:29
Total/NA	Prep	537.1 DW			122455	N8NE	EA POM	12/06/24 13:57
Total/NA	Analysis	537.1		1	122593	M7ML	EA POM	12/07/24 20:37

Lab Chronicle

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

Job ID: 380-125052-1
SDG: Weekly PFAS

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 380-125052-1
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

- 1
- 2
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Method Summary

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

Job ID: 380-125052-1
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: 380-125052-1
SDG: Weekly PFAS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-125052-1	HALAWA WELLS UNITS 1&2 P1	Water	12/02/24 09:53	12/05/24 10:01
380-125052-2	AIEA GULCH WELLS PUMP 1	Water	12/02/24 10:27	12/05/24 10:01
380-125052-3	AIEA GULCH WELLS PUMP 2	Water	12/02/24 10:44	12/05/24 10:01
380-125052-4	AIEA WELLS PUMPS 1&2 (260) P2	Water	12/02/24 11:07	12/05/24 10:01
380-125052-5	KA'AMILO WELLS	Water	12/02/24 11:31	12/05/24 10:01
380-125052-6	FB HALAWA WELLS UNITS 1&2 P1	Water	12/02/24 09:53	12/05/24 10:01
380-125052-7	FB AIEA GULCH WELLS PUMP 1	Water	12/02/24 10:27	12/05/24 10:01
380-125052-8	FB AIEA GULCH WELLS PUMP 2	Water	12/02/24 10:44	12/05/24 10:01
380-125052-9	FB AIEA WELLS PUMPS 1&2 (260) P2	Water	12/02/24 11:07	12/05/24 10:01
380-125052-10	FB KA'AMILO WELLS	Water	12/02/24 11:31	12/05/24 10:01

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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

Client Information Client Contact: Dr Ron Fenstermacher Company: City & County of Honolulu Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI 96843 Phone: 808-748-5091 (tel) Email: rfenstermacher@hbws.org Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill Site:		Lab PM: Arada Rachelle E-Mail: Rachelle.Arada@teuroniusus.com PWSID:		Carrier Tracking No(s): 380-27941-2757 2 State of Origin: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> No PO #: C20525101 exp 05312023 WO #:		Analysis Requested Field Filled Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No SUBCONTRACT 625 PAH Physis LL (EAL) + TICs 80158_GRO_LL (MOD) GRO 80158_PRO_LL_CS HNL Ranges C10-C24/C24-C36/C8 C18 525.2_PREC (MOD) 525plus PLUS TICs 537.1_DW_PREC 537.1 Full List 533 All Analytes			
Sample Identification Sample Date Sample Time Sample Type Matrix Preservation Code:		Total Number of Containers: 380-125052 COC Special Instructions/Note:			
HALAWA WELLS UNITS 1&2 P1 AIEA GULCH WELLS PUMP 1 AIEA GULCH WELLS PUMP 2 AIEA WELLS PUMPS 1&2 (260) PZ KA'AMILO WELLS FB HALAWA WELLS UNITS 1&2 FB AIEA GULCH WELLS PUMP 1 FB AIEA GULCH WELLS PUMP 2 FB AIEA WELLS PUMPS 1&2 (260) FB KA'AMILO WELLS		chlorinated chlorinated chlorinated 07304 9213 5921 751A 11.0-0.0-2.5-1.1 07304 9213 5932 751A 0.8-0.0-0.0-0.8 07304 9213 5943 751A 0.4-0.0-0.0-0.4			
Possible Hazard Identification <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 Deliverable Requested I II III IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: 4 751A 9213 5954 / 751A 0.4-0.0-0.0-0.4 Method of Shipment: FED Ex 4 COOLERS			
Empty Kit Relinquished by:		Date/Time: 12/05/2024 10:01 Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 751A 10.0° CORRECTION Company:			



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-125052-1
SDG Number: Weekly PFAS

Login Number: 125052
List Number: 1
Creator: Edrosa, Rey

List Source: Eurofins Eaton Analytical Pomona

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

