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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
PFAS: Aiea Gulch Wells P2/P2

JOB NUMBER

380-195105-1

Eurofins Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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: 380-195105-1

Job ID: 380-195105-1

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Job Narrative 380-195105-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 1/29/2026 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

PFAS

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

Detection Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P1

Lab Sample ID: 380-195105-1

No Detections.

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

No Detections.

Client Sample ID: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

No Detections.

Client Sample ID: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

No Detections.

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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: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P1

Lab Sample ID: 380-195105-1

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 12:57	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 12:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C6 PFDA	113		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C5 PFHxA	114		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C4 PFHpA	116		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C8 PFOA	119		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C9 PFNA	118		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C7 PFUnA	110		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C2 PFDoA	110		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C4 PFBA	119		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C5 PFPeA	122		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C3 PFBS	116		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C3 PFHxS	115		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C8 PFOS	119		50 - 200	02/03/26 14:25	02/05/26 12:57	1

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Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P1

Lab Sample ID: 380-195105-1

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

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	128		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C2-6:2-FTS	123		50 - 200	02/03/26 14:25	02/05/26 12:57	1
13C2-8:2-FTS	135		50 - 200	02/03/26 14:25	02/05/26 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130	01/30/26 18:03	01/31/26 17:26	1
13C2 PFHxA	104		70 - 130	01/30/26 18:03	01/31/26 17:26	1
13C2 PFDA	110		70 - 130	01/30/26 18:03	01/31/26 17:26	1
13C3-GenX	94		70 - 130	01/30/26 18:03	01/31/26 17:26	1

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1

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Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:07	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C6 PFDA	85		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C5 PFHxA	94		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C4 PFHpA	88		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C8 PFOA	92		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C9 PFNA	89		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C7 PFUnA	93		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C2 PFDoA	95		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C4 PFBA	99		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C5 PFPeA	98		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C3 PFBS	110		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C3 PFHxS	110		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C8 PFOS	118		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C2-4:2-FTS	118		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C2-6:2-FTS	117		50 - 200	02/03/26 14:25	02/05/26 13:07	1
13C2-8:2-FTS	107		50 - 200	02/03/26 14:25	02/05/26 13:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		01/30/26 18:03	01/31/26 19:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	112		70 - 130			01/30/26 18:03	01/31/26 19:31	1
13C2 PFHxA	115		70 - 130			01/30/26 18:03	01/31/26 19:31	1
13C2 PFDA	117		70 - 130			01/30/26 18:03	01/31/26 19:31	1
13C3-GenX	111		70 - 130			01/30/26 18:03	01/31/26 19:31	1

Client Sample ID: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1

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Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:16	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C6 PFDA	109		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C5 PFHxA	105		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C4 PFHpA	108		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C8 PFOA	115		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C9 PFNA	115		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C7 PFUnA	109		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C2 PFDoA	107		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C4 PFBA	107		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C5 PFPeA	112		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C3 PFBS	122		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C3 PFHxS	114		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C8 PFOS	121		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C2-4:2-FTS	126		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C2-6:2-FTS	131		50 - 200			02/03/26 14:25	02/05/26 13:16	1
13C2-8:2-FTS	124		50 - 200			02/03/26 14:25	02/05/26 13:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1

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Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

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		01/30/26 18:03	01/31/26 19:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130			01/30/26 18:03	01/31/26 19:40	1
13C2 PFHxA	105		70 - 130			01/30/26 18:03	01/31/26 19:40	1
13C2 PFDA	107		70 - 130			01/30/26 18:03	01/31/26 19:40	1
13C3-GenX	100		70 - 130			01/30/26 18:03	01/31/26 19:40	1

Client Sample ID: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:26	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1

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Client Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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		02/03/26 14:25	02/05/26 13:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/03/26 14:25	02/05/26 13:26	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C6 PFDA	105		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C5 PFHxA	112		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C4 PFHpA	107		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C8 PFOA	120		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C9 PFNA	113		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C7 PFUnA	103		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C2 PFDoA	100		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C4 PFBA	114		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C5 PFPeA	122		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C3 PFBS	114		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C3 PFHxS	110		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C8 PFOS	118		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C2-4:2-FTS	119		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C2-6:2-FTS	122		50 - 200			02/03/26 14:25	02/05/26 13:26	1
13C2-8:2-FTS	115		50 - 200			02/03/26 14:25	02/05/26 13:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1

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Client Sample Results

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

Job ID: 380-195105-1
 SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/30/26 18:03	01/31/26 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130			01/30/26 18:03	01/31/26 19:50	1
13C2 PFHxA	112		70 - 130			01/30/26 18:03	01/31/26 19:50	1
13C2 PFDA	108		70 - 130			01/30/26 18:03	01/31/26 19:50	1
13C3-GenX	88		70 - 130			01/30/26 18:03	01/31/26 19:50	1

Action Limit Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P1

Lab Sample ID: 380-195105-1

Compliance Check

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

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

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

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: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

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

Action Limit Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: FB Aiea Gulch Wells P1 (Continued)

Lab Sample ID: 380-195105-3

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: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

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

Surrogate Summary

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

Job ID: 380-195105-1
 SDG: PFAS: Aiea Gulch Wells P2/P2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-195105-1	Aiea Gulch Wells P1	108	104	110	94
380-195105-1 MS	Aiea Gulch Wells P1	108	102	111	97
380-195105-1 MSD	Aiea Gulch Wells P1	110	102	106	97
380-195105-2	Aiea Gulch Wells P2	112	115	117	111
380-195105-3	FB Aiea Gulch Wells P1	106	105	107	100
380-195105-4	FB Aiea Gulch Wells P2	108	112	108	88
LCS 380-202356/21-A	Lab Control Sample	103	96	113	87
MBL 380-202356/19-A	Method Blank	110	108	114	100
MRL 380-202356/20-A	Lab Control Sample	112	109	115	103

Surrogate Legend

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Isotope Dilution Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)
380-195091-B-4-A MS	Matrix Spike	110	106	108	106	116	111	110	104
380-195091-C-4-A MSD	Matrix Spike Duplicate	105	105	106	102	113	112	109	112
380-195105-1	Aiea Gulch Wells P1	102	113	114	116	119	118	110	110
380-195105-2	Aiea Gulch Wells P2	83	85	94	88	92	89	93	95
380-195105-3	FB Aiea Gulch Wells P1	93	109	105	108	115	115	109	107
380-195105-4	FB Aiea Gulch Wells P2	96	105	112	107	120	113	103	100
LCS 380-203098/22-A	Lab Control Sample	108	104	105	102	110	107	105	105
MBL 380-203098/20-A	Method Blank	104	105	106	100	111	110	104	108
MRL 380-203098/21-A	Lab Control Sample	101	103	106	102	115	105	101	106

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-195091-B-4-A MS	Matrix Spike	110	134	112	117	120	138	139	118
380-195091-C-4-A MSD	Matrix Spike Duplicate	108	133	109	116	119	130	131	117
380-195105-1	Aiea Gulch Wells P1	119	122	116	115	119	128	123	135
380-195105-2	Aiea Gulch Wells P2	99	98	110	110	118	118	117	107
380-195105-3	FB Aiea Gulch Wells P1	107	112	122	114	121	126	131	124
380-195105-4	FB Aiea Gulch Wells P2	114	122	114	110	118	119	122	115
LCS 380-203098/22-A	Lab Control Sample	106	104	112	112	117	107	109	106
MBL 380-203098/20-A	Method Blank	109	106	117	118	119	118	119	114
MRL 380-203098/21-A	Lab Control Sample	109	104	114	115	114	116	116	112

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: MBL 380-203098/20-A
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203098

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		02/03/26 14:25	02/04/26 17:50	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C6 PFDA	105		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C5 PFHxA	106		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C4 PFHpA	100		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C8 PFOA	111		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C9 PFNA	110		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C7 PFUnA	104		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C2 PFDoA	108		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C4 PFBA	109		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C5 PFPeA	106		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C3 PFBS	117		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C3 PFHxS	118		50 - 200	02/03/26 14:25	02/04/26 17:50	1

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QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: MBL 380-203098/20-A
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203098

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	119		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C2-4:2-FTS	118		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C2-6:2-FTS	119		50 - 200	02/03/26 14:25	02/04/26 17:50	1
13C2-8:2-FTS	114		50 - 200	02/03/26 14:25	02/04/26 17:50	1

Lab Sample ID: LCS 380-203098/22-A
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	103		ng/L		85	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	120	119		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	110		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	108		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	120	112		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	120	114		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	115		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	112		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	120	115		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	120	114		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	108		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	120	113		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	112		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	120	114		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	114		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	115		ng/L		96	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	120	106		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	120	108		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	111		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	117		ng/L		97	70 - 130
Perfluoropentanoic acid (PFPeA)	120	116		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	108		ng/L		90	70 - 130

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: LCS 380-203098/22-A

Matrix: Water

Analysis Batch: 203291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	108		ng/L		90	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	108		50 - 200				
13C6 PFDA	104		50 - 200				
13C5 PFHxA	105		50 - 200				
13C4 PFHpA	102		50 - 200				
13C8 PFOA	110		50 - 200				
13C9 PFNA	107		50 - 200				
13C7 PFUnA	105		50 - 200				
13C2 PFDoA	105		50 - 200				
13C4 PFBA	106		50 - 200				
13C5 PFPeA	104		50 - 200				
13C3 PFBS	112		50 - 200				
13C3 PFHxS	112		50 - 200				
13C8 PFOS	117		50 - 200				
13C2-4:2-FTS	107		50 - 200				
13C2-6:2-FTS	109		50 - 200				
13C2-8:2-FTS	106		50 - 200				

Lab Sample ID: MRL 380-203098/21-A

Matrix: Water

Analysis Batch: 203291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203098

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.88	J	ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.85	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.17	J	ng/L		108	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	1.79	J	ng/L		90	50 - 150

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QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: MRL 380-203098/21-A
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203098

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	2.13	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.44	J	ng/L		122	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	1.79	J	ng/L		89	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.03	J	ng/L		102	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	1.84	J	ng/L		92	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	101		50 - 200
13C6 PFDA	103		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	102		50 - 200
13C8 PFOA	115		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	101		50 - 200
13C2 PFDoA	106		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	104		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	115		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	116		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-195091-B-4-A MS
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	103		ng/L		86	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	103		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	124		ng/L		103	70 - 130

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: 380-195091-B-4-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 203291

Prep Batch: 203098

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		120	114		ng/L		95	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	111		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	115		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	124		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	111		ng/L		92	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	113		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	117		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	115		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	109		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	112		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	111		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	2.4		120	116		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	114		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	112		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	114		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	111		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	108		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	129		ng/L		107	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	114		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	117		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	111		ng/L		92	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	107		ng/L		89	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	110		50 - 200
13C6 PFDA	106		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	106		50 - 200
13C8 PFOA	116		50 - 200
13C9 PFNA	111		50 - 200
13C7 PFUnA	110		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	110		50 - 200
13C5 PFPeA	134		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	117		50 - 200
13C8 PFOS	120		50 - 200

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: 380-195091-B-4-A MS
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203098

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>	
13C2-4:2-FTS	138	50 - 200
13C2-6:2-FTS	139	50 - 200
13C2-8:2-FTS	118	50 - 200

Lab Sample ID: 380-195091-C-4-A MSD
Matrix: Water
Analysis Batch: 203291

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 203098

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD MSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	101		ng/L		84	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	99.8		ng/L		83	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	122		ng/L		101	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	118		ng/L		98	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	110		ng/L		92	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		120	117		ng/L		97	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	113		ng/L		94	70 - 130	9	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	117		ng/L		97	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	111		ng/L		92	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	118		ng/L		98	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		120	113		ng/L		94	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	109		ng/L		90	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		120	112		ng/L		93	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	110		ng/L		92	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	2.4		120	117		ng/L		95	70 - 130	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	114		ng/L		95	70 - 130	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	119		ng/L		99	70 - 130	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	116		ng/L		96	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	108		ng/L		90	70 - 130	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	108		ng/L		89	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	130		ng/L		108	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	117		ng/L		97	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	114		ng/L		94	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	109		ng/L		90	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	107		ng/L		89	70 - 130	0	30

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	102		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	133		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	119		50 - 200
13C2-4:2-FTS	130		50 - 200
13C2-6:2-FTS	131		50 - 200
13C2-8:2-FTS	117		50 - 200

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

Lab Sample ID: MBL 380-202356/19-A
Matrix: Water
Analysis Batch: 202502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202356

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/30/26 18:03	01/31/26 16:58	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	110		70 - 130			01/30/26 18:03	01/31/26 16:58	1
13C2 PFHxA	108		70 - 130			01/30/26 18:03	01/31/26 16:58	1
13C2 PFDA	114		70 - 130			01/30/26 18:03	01/31/26 16:58	1

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QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: MBL 380-202356/19-A
Matrix: Water
Analysis Batch: 202502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 202356

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	100		70 - 130	01/30/26 18:03	01/31/26 16:58	1

Lab Sample ID: LCS 380-202356/21-A
Matrix: Water
Analysis Batch: 202502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.3		ng/L		89	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	26.8		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	27.2		ng/L		109	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	24.7		ng/L		99	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	26.4		ng/L		105	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	24.6		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	25.6		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	26.9		ng/L		108	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	26.5		ng/L		106	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	25.8		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	29.3		ng/L		117	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	26.4		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	25.1	28.1		ng/L		112	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	25.3		ng/L		101	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	27.6		ng/L		110	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	28.9		ng/L		115	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	28.2		ng/L		113	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	22.4		ng/L		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	103		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	113		70 - 130
13C3-GenX	87		70 - 130

QC Sample Results

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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

Lab Sample ID: MRL 380-202356/20-A
Matrix: Water
Analysis Batch: 202502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 202356

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.93	J	ng/L		96	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.15	J	ng/L		108	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.22	J	ng/L		111	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.11	J	ng/L		105	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.37	J	ng/L		119	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.27	J	ng/L		114	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.31	J	ng/L		115	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.29	J	ng/L		114	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.85	J	ng/L		93	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.21	J	ng/L		111	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.30	J	ng/L		115	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.22	J	ng/L		111	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.96	J	ng/L		98	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	112		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	115		70 - 130
13C3-GenX	103		70 - 130

Lab Sample ID: 380-195105-1 MS
Matrix: Water
Analysis Batch: 202502

Client Sample ID: Aiea Gulch Wells P1
Prep Type: Total/NA
Prep Batch: 202356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	48.7		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	52.9		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	50.2		ng/L		100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	54.1		ng/L		108	70 - 130

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QC Association Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

LCMS

Prep Batch: 202356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195105-1	Aiea Gulch Wells P1	Total/NA	Water	537.1 DW	
380-195105-2	Aiea Gulch Wells P2	Total/NA	Water	537.1 DW	
380-195105-3	FB Aiea Gulch Wells P1	Total/NA	Water	537.1 DW	
380-195105-4	FB Aiea Gulch Wells P2	Total/NA	Water	537.1 DW	
MBL 380-202356/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-202356/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-202356/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-195105-1 MS	Aiea Gulch Wells P1	Total/NA	Water	537.1 DW	
380-195105-1 MSD	Aiea Gulch Wells P1	Total/NA	Water	537.1 DW	

Analysis Batch: 202502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195105-1	Aiea Gulch Wells P1	Total/NA	Water	537.1	202356
380-195105-2	Aiea Gulch Wells P2	Total/NA	Water	537.1	202356
380-195105-3	FB Aiea Gulch Wells P1	Total/NA	Water	537.1	202356
380-195105-4	FB Aiea Gulch Wells P2	Total/NA	Water	537.1	202356
MBL 380-202356/19-A	Method Blank	Total/NA	Water	537.1	202356
LCS 380-202356/21-A	Lab Control Sample	Total/NA	Water	537.1	202356
MRL 380-202356/20-A	Lab Control Sample	Total/NA	Water	537.1	202356
380-195105-1 MS	Aiea Gulch Wells P1	Total/NA	Water	537.1	202356
380-195105-1 MSD	Aiea Gulch Wells P1	Total/NA	Water	537.1	202356

Prep Batch: 203098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195105-1	Aiea Gulch Wells P1	Total/NA	Water	533	
380-195105-2	Aiea Gulch Wells P2	Total/NA	Water	533	
380-195105-3	FB Aiea Gulch Wells P1	Total/NA	Water	533	
380-195105-4	FB Aiea Gulch Wells P2	Total/NA	Water	533	
MBL 380-203098/20-A	Method Blank	Total/NA	Water	533	
LCS 380-203098/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-203098/21-A	Lab Control Sample	Total/NA	Water	533	
380-195091-B-4-A MS	Matrix Spike	Total/NA	Water	533	
380-195091-C-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 203291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MBL 380-203098/20-A	Method Blank	Total/NA	Water	533	203098
LCS 380-203098/22-A	Lab Control Sample	Total/NA	Water	533	203098
MRL 380-203098/21-A	Lab Control Sample	Total/NA	Water	533	203098
380-195091-B-4-A MS	Matrix Spike	Total/NA	Water	533	203098
380-195091-C-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	203098

Analysis Batch: 203652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-195105-1	Aiea Gulch Wells P1	Total/NA	Water	533	203098
380-195105-2	Aiea Gulch Wells P2	Total/NA	Water	533	203098
380-195105-3	FB Aiea Gulch Wells P1	Total/NA	Water	533	203098
380-195105-4	FB Aiea Gulch Wells P2	Total/NA	Water	533	203098

Lab Chronicle

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Client Sample ID: Aiea Gulch Wells P1

Lab Sample ID: 380-195105-1

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203098	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203652	SZ9R	EA POM	02/05/26 12:57
Total/NA	Prep	537.1 DW			202356	N8NE	EA POM	01/30/26 18:03
Total/NA	Analysis	537.1		1	202502	M7ML	EA POM	01/31/26 17:26

Client Sample ID: Aiea Gulch Wells P2

Lab Sample ID: 380-195105-2

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203098	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203652	SZ9R	EA POM	02/05/26 13:07
Total/NA	Prep	537.1 DW			202356	N8NE	EA POM	01/30/26 18:03
Total/NA	Analysis	537.1		1	202502	M7ML	EA POM	01/31/26 19:31

Client Sample ID: FB Aiea Gulch Wells P1

Lab Sample ID: 380-195105-3

Date Collected: 01/26/26 09:00

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203098	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203652	SZ9R	EA POM	02/05/26 13:16
Total/NA	Prep	537.1 DW			202356	N8NE	EA POM	01/30/26 18:03
Total/NA	Analysis	537.1		1	202502	M7ML	EA POM	01/31/26 19:40

Client Sample ID: FB Aiea Gulch Wells P2

Lab Sample ID: 380-195105-4

Date Collected: 01/26/26 09:30

Matrix: Water

Date Received: 01/29/26 09:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203098	E2HD	EA POM	02/03/26 14:25
Total/NA	Analysis	533		1	203652	SZ9R	EA POM	02/05/26 13:26
Total/NA	Prep	537.1 DW			202356	N8NE	EA POM	01/30/26 18:03
Total/NA	Analysis	537.1		1	202502	M7ML	EA POM	01/31/26 19:50

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Laboratory: Eurofins Pomona

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

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

- 1
- 2
- 3
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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

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 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: 380-195105-1
SDG: PFAS: Aiea Gulch Wells P2/P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-195105-1	Aiea Gulch Wells P1	Water	01/26/26 09:00	01/29/26 09:52	Hawaii
380-195105-2	Aiea Gulch Wells P2	Water	01/26/26 09:30	01/29/26 09:52	Hawaii
380-195105-3	FB Aiea Gulch Wells P1	Water	01/26/26 09:00	01/29/26 09:52	Hawaii
380-195105-4	FB Aiea Gulch Wells P2	Water	01/26/26 09:30	01/29/26 09:52	Hawaii

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- 17

Chain of Custody Record



380-195105 COC

Client Information
 Sampler: Kai Edison
 Phone: +1 808 748 5840
 Lab PM: Arada, Rachelle
 E-Mail: Rachelle.Arada@et.eurofins.com
 COC No: 380-28005-2757 1
 Page: Page 1 of 1
 Job #: Job #:

City & County of Honolulu
 Address: 630 South Beretania Street Chemistry Lab
 City: Honolulu
 State, Zip: HI 96843
 Phone: 808-748-5840 (Tel)
 Email: kiwanoto@hbws.org
 Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill
 Site: Hawaii

Due Date Requested: TAT Requested (days):
 Compliance Project: Yes No
 PO #: C20525101 exp 05312023
 WO #:
 Project #: 38001111
 SSOV#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-site, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	R	RA	Q	QA	Y	Special Instructions/Note:
Area Gulch Wells P1	26-Jan-2026	9:00	G	Water							3 3	chlorinated
Area Gulch Wells P2	26-Jan-2026	9:30	G	Water							3 3	chlorinated
FB Area Gulch Wells P1	26-Jan-2026	9:00	G	Water							1 1	
FB Area Gulch Wells P2	26-Jan-2026	9:30	G	Water							1 1	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Method of Shipment: **FED**
 Received by: **JMA**
 Date/Time: **1/29/26 9:52**
 Company: **EFAP**
 Relinquished by: **JMA**
 Date/Time: **1/29/26 12:00**
 Company: **HBWS**
 Relinquished by: **JMA**
 Date/Time: **1/29/26 12:00**
 Company: **HBWS**
 Relinquished by: **JMA**
 Date/Time: **1/29/26 12:00**
 Company: **HBWS**

Cooler Temperature(s) °C and Other Remarks: **75°F 3.6°C gel punch**
 Custody Seal No. **380-195105**
 Ver: 04/02/2024



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-195105-1
SDG Number: PFAS: Aiea Gulch Wells P2/P2

Login Number: 195105

List Number: 1

Creator: Gross, Drake

List Source: Eurofins Pomona

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

