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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells P1/P2, Aiea Wells Pumps 1&2

JOB NUMBER

380-183575-1

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: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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: 380-183575-1

Job ID: 380-183575-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-183575-1

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 11/19/2025 9:50 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 2.7°C.

PFAS

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 (331-206-TP065) (380-183575-2). (XWB4)

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: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-1

No Detections.

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

Lab Sample ID: 380-183575-2

| Analyte | Result | Qualifier | RL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Perfluorohexanesulfonic acid (PFHxS) | 2.3 | | 2.0 | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.2 | | 2.0 | ng/L | 1 | | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.8 | | 2.0 | ng/L | 1 | | 537.1 | Total/NA |
| Perfluorohexanoic acid (PFHxA) | 2.0 | | 2.0 | ng/L | 1 | | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | 2.7 | | 2.0 | ng/L | 1 | | 537.1 | Total/NA |

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

Lab Sample ID: 380-183575-3

No Detections.

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

Lab Sample ID: 380-183575-4

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)

Lab Sample ID: 380-183575-5

No Detections.

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

Lab Sample ID: 380-183575-6

No Detections.

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

Lab Sample ID: 380-183575-7

No Detections.

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

Lab Sample ID: 380-183575-8

No Detections.

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

Lab Sample ID: 380-183575-9

No Detections.

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

Lab Sample ID: 380-183575-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-1

Date Collected: 11/17/25 09:57

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:48 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 93 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C6 PFDA | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C5 PFHxA | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C4 PFHpA | 122 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C8 PFOA | 106 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C9 PFNA | 104 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C7 PFUnA | 97 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C2 PFDoA | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C4 PFBA | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C5 PFPeA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C3 PFBS | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C3 PFHxS | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-1

Date Collected: 11/17/25 09:57

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C8 PFOS | 107 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C2-4:2-FTS | 115 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C2-6:2-FTS | 119 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 1 |
| 13C2-8:2-FTS | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:48 | 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 | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 102 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 13C2 PFHxA | 99 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 13C2 PFDA | 107 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:28 | 1 |
| 13C3-GenX | 98 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:28 | 1 |

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

Lab Sample ID: 380-183575-2

Date Collected: 11/17/25 10:23

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-2

Date Collected: 11/17/25 10:23

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.3 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 2.2 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 21:58 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C6 PFDA | 97 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C5 PFHxA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C4 PFHpA | 124 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C8 PFOA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C9 PFNA | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C7 PFUnA | 101 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C2 PFDoA | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C4 PFBA | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C5 PFPeA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C3 PFBS | 103 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C3 PFHxS | 104 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C8 PFOS | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C2-4:2-FTS | 111 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |
| 13C2-6:2-FTS | 99 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-2

Date Collected: 11/17/25 10:23

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2-8:2-FTS | 101 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 21:58 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 2.8 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorohexanoic acid (PFHxA) | 2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.7 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:38 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 103 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 13C2 PFHxA | 103 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 13C2 PFDA | 107 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:38 | 1 |
| 13C3-GenX | 99 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 12:38 | 1 |

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

Lab Sample ID: 380-183575-3

Date Collected: 11/17/25 10:50

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-3

Date Collected: 11/17/25 10:50

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:07 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C6 PFDA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C5 PFHxA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C4 PFHpA | 132 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C8 PFOA | 106 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C9 PFNA | 94 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C7 PFUnA | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C2 PFDoA | 95 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C4 PFBA | 106 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C5 PFPeA | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C3 PFBS | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C3 PFHxS | 106 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C8 PFOS | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C2-4:2-FTS | 109 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C2-6:2-FTS | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |
| 13C2-8:2-FTS | 92 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:07 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-3

Date Collected: 11/17/25 10:50

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Perfluorotridecanoic acid (PFTTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 102 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 13C2 PFHxA | 100 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 13C2 PFDA | 104 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |
| 13C3-GenX | 93 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:47 | 1 |

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

Lab Sample ID: 380-183575-4

Date Collected: 11/17/25 11:09

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-4

Date Collected: 11/17/25 11:09

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:17 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C6 PFDA | 91 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C5 PFHxA | 117 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C4 PFHpA | 129 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C8 PFOA | 109 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C9 PFNA | 94 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C7 PFUnA | 91 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C2 PFDoA | 94 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C4 PFBA | 97 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C5 PFPeA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C3 PFBS | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C3 PFHxS | 101 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C8 PFOS | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C2-4:2-FTS | 120 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C2-6:2-FTS | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 1 |
| 13C2-8:2-FTS | 88 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:17 | 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 | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-4

Date Collected: 11/17/25 11:09

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 106 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 13C2 PFHxA | 106 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 13C2 PFDA | 111 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |
| 13C3-GenX | 96 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:39 | 1 |

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-183575-5

Date Collected: 11/17/25 11:30

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-183575-5

Date Collected: 11/17/25 11:30

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 81 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C6 PFDA | 82 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C5 PFHxA | 90 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C4 PFHpA | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C8 PFOA | 91 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C9 PFNA | 80 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C7 PFUnA | 86 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C2 PFDoA | 91 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C4 PFBA | 84 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C5 PFPeA | 85 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C3 PFBS | 113 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C3 PFHxS | 109 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C8 PFOS | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C2-4:2-FTS | 111 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C2-6:2-FTS | 95 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |
| 13C2-8:2-FTS | 94 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:27 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-183575-5

Date Collected: 11/17/25 11:30

Matrix: Drinking Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorodecanoic acid (PFDA) | 2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 101 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 13C2 PFHxA | 104 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 13C2 PFDA | 108 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |
| 13C3-GenX | 97 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 12:57 | 1 |

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

Lab Sample ID: 380-183575-6

Date Collected: 11/17/25 09:57

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-6

Date Collected: 11/17/25 09:57

Matrix: Water

Date Received: 11/19/25 09:50

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-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 92 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C6 PFDA | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C5 PFHxA | 108 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C4 PFHpA | 138 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C8 PFOA | 104 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C9 PFNA | 105 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C7 PFUnA | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C2 PFDoA | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C4 PFBA | 103 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C5 PFPeA | 114 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C3 PFBS | 104 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C3 PFHxS | 104 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C8 PFOS | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C2-4:2-FTS | 107 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C2-6:2-FTS | 89 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 1 |
| 13C2-8:2-FTS | 88 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 22:36 | 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 | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-6

Date Collected: 11/17/25 09:57

Matrix: Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 102 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 13C2 PFHxA | 97 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 13C2 PFDA | 105 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |
| 13C3-GenX | 84 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:07 | 1 |

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

Lab Sample ID: 380-183575-7

Date Collected: 11/17/25 10:23

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-7

Date Collected: 11/17/25 10:23

Matrix: Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 22:46 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 91 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C6 PFDA | 104 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C5 PFHxA | 112 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C4 PFHpA | 144 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C8 PFOA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C9 PFNA | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C7 PFUnA | 99 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C2 PFDoA | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C4 PFBA | 104 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C5 PFPeA | 116 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C3 PFBS | 117 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C3 PFHxS | 120 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C8 PFOS | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C2-4:2-FTS | 126 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C2-6:2-FTS | 106 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 1 |
| 13C2-8:2-FTS | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 22:46 | 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 | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-7

Date Collected: 11/17/25 10:23

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NETfOSAA | 99 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| 13C2 PFHxA | 103 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| 13C2 PFDA | 112 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |
| 13C3-GenX | 96 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:16 | 1 |

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

Lab Sample ID: 380-183575-8

Date Collected: 11/17/25 10:50

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-8

Date Collected: 11/17/25 10:50

Matrix: Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 93 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C6 PFDA | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C5 PFHxA | 113 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C4 PFHpA | 143 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C8 PFOA | 107 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C9 PFNA | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C7 PFUnA | 105 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C2 PFDoA | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C4 PFBA | 112 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C5 PFPeA | 120 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C3 PFBS | 112 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C3 PFHxS | 105 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C8 PFOS | 110 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C2-4:2-FTS | 123 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C2-6:2-FTS | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 1 |
| 13C2-8:2-FTS | 97 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:05 | 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 | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-8

Date Collected: 11/17/25 10:50

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 101 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| 13C2 PFHxA | 95 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| 13C2 PFDA | 108 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |
| 13C3-GenX | 90 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 13:26 | 1 |

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

Lab Sample ID: 380-183575-9

Date Collected: 11/17/25 11:09

Matrix: Water

Date Received: 11/19/25 09:50

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-9

Date Collected: 11/17/25 11:09

Matrix: Water

Date Received: 11/19/25 09:50

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 | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 85 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C6 PFDA | 92 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C5 PFHxA | 100 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C4 PFHpA | 118 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C8 PFOA | 94 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C9 PFNA | 96 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C7 PFUnA | 93 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C2 PFDoA | 92 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C4 PFBA | 101 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C5 PFPeA | 104 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C3 PFBS | 105 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C3 PFHxS | 103 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C8 PFOS | 102 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C2-4:2-FTS | 108 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C2-6:2-FTS | 94 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 1 |
| 13C2-8:2-FTS | 94 | | 50 - 200 | | | 11/24/25 06:04 | 11/24/25 23:14 | 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 | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| Perfluorotridecanoic acid (PFTTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:47 | 1 |

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Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-9

Date Collected: 11/17/25 11:09
Date Received: 11/19/25 09:50

Matrix: Water

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 88 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 13C2 PFHxA | 100 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 13C2 PFDA | 106 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:47 | 1 |
| 13C3-GenX | 93 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:47 | 1 |

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

Lab Sample ID: 380-183575-10

Date Collected: 11/17/25 11:30
Date Received: 11/19/25 09:50

Matrix: Water

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 23:24 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-10

Date Collected: 11/17/25 11:30

Matrix: Water

Date Received: 11/19/25 09:50

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 129 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C6 PFDA | 111 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C5 PFHxA | 137 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C4 PFHpA | 166 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C8 PFOA | 135 | | 50 - 200 | 11/24/25 06 04 | 11/24/25 23 24 | 1 |
| 13C9 PFNA | 116 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C7 PFUnA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C2 PFDoA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C4 PFBA | 121 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C5 PFPeA | 137 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C3 PFBS | 141 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C3 PFHxS | 128 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C8 PFOS | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C2-4:2-FTS | 155 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C2-6:2-FTS | 135 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 1 |
| 13C2-8:2-FTS | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 23:24 | 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 | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| Perfluorotridecanoic acid (PFTTrDA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 13:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 99 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 13C2 PFHxA | 102 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 13C2 PFDA | 107 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:58 | 1 |
| 13C3-GenX | 89 | | 70 - 130 | 11/22/25 07:45 | 11/24/25 13:58 | 1 |

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-1

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

Lab Sample ID: 380-183575-2

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) | 2.3 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.2 | | 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) | 2.8 | | 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) | 2.7 | | 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 (331-201-TP071)

Lab Sample ID: 380-183575-3

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 |

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-3

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

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

Lab Sample ID: 380-183575-4

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: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)

Lab Sample ID: 380-183575-5

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 |

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Action Limit Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400) (Continued)**

Lab Sample ID: 380-183575-5

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 | | | |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

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

Lab Sample ID: 380-183575-6

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 HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-183575-7

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 |

Action Limit Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-8

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 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

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

Lab Sample ID: 380-183575-9

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 AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-183575-10

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 |

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-10

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 | | | |
| 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: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|------------------|--|--|-------------------|------------------|------------------|
| | | d5NEFOS (70-130) | PFHxA (70-130) | PFDA (70-130) | GenX (70-130) |
| 380-183575-1 | MOANALUA WELLS (331-223-T | 102 | 99 | 107 | 98 |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) | 103 | 103 | 107 | 99 |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | 102 | 100 | 104 | 93 |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 106 | 106 | 111 | 96 |
| 380-183575-4 MS | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 113 | 112 | 111 | 107 |
| 380-183575-4 MSD | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 112 | 106 | 110 | 99 |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) | 101 | 104 | 108 | 97 |

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---------------------|--|--|-------------------|------------------|------------------|
| | | d5NEFOS (70-130) | PFHxA (70-130) | PFDA (70-130) | GenX (70-130) |
| 380-183575-6 | FB MOANALUA WELLS (331-22 | 102 | 97 | 105 | 84 |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065) | 99 | 103 | 112 | 96 |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331 201 TP071) | 101 | 95 | 108 | 90 |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 88 | 100 | 106 | 93 |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) | 99 | 102 | 107 | 89 |
| LCS 380-188113/24-A | Lab Control Sample | 110 | 104 | 109 | 100 |
| MBL 380-188113/22-A | Method Blank | 98 | 112 | 108 | 108 |
| MRL 380-188113/23-A | Lab Control Sample | 97 | 95 | 104 | 88 |

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: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Matrix: Drinking 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) | PFDoA (50-200) |
| 380-183575-1 | MOANALUA WELLS (331-223-T | 93 | 100 | 105 | 122 | 106 | 104 | 97 | 96 |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) | 102 | 97 | 108 | 124 | 108 | 105 | 101 | 100 |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | 98 | 98 | 108 | 132 | 106 | 94 | 96 | 95 |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 102 | 91 | 117 | 129 | 109 | 94 | 91 | 94 |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) | 81 | 82 | 90 | 101 | 91 | 80 | 86 | 91 |

| 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) |
| 380-183575-1 | MOANALUA WELLS (331-223-T | 105 | 108 | 108 | 108 | 107 | 115 | 119 | 100 |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) | 100 | 102 | 103 | 104 | 102 | 111 | 99 | 101 |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | 106 | 105 | 108 | 106 | 100 | 109 | 96 | 92 |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 97 | 98 | 108 | 101 | 98 | 120 | 96 | 88 |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) | 84 | 85 | 113 | 109 | 101 | 111 | 95 | 94 |

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| 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) | PFDoA (50-200) |
| 380-183575-6 | FB MOANALUA WELLS (331-22 | 92 | 101 | 108 | 138 | 104 | 105 | 101 | 101 |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065) | 91 | 104 | 112 | 144 | 108 | 100 | 99 | 96 |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | 93 | 102 | 113 | 143 | 107 | 102 | 105 | 102 |

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Isotope Dilution Summary

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

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

Matrix: Water

Prep Type: Total/NA

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|----------------------|--|---|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| Lab Sample ID | Client Sample ID | HFPODA (50-200) | C6PFDA (50-200) | 13C5PHA (50-200) | C4PFHA (50-200) | C8PFOA (50-200) | C9PFNA (50-200) | 13C7PUA (50-200) | PFDoA (50-200) |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP | 85 | 92 | 100 | 118 | 94 | 96 | 93 | 92 |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) | 129 | 111 | 137 | 166 | 135 | 116 | 98 | 98 |
| 380-183578-E-2-A MS | Matrix Spike | 109 | 106 | 108 | 109 | 110 | 106 | 103 | 107 |
| 380-183578-F-2-A MSD | Matrix Spike Duplicate | 110 | 109 | 115 | 109 | 111 | 100 | 105 | 105 |
| LCS 380 188274/22 A | Lab Control Sample | 107 | 112 | 118 | 120 | 118 | 109 | 120 | 115 |
| MBL 380-188274/20-A | Method Blank | 88 | 102 | 105 | 115 | 98 | 102 | 101 | 98 |
| MRL 380-188274/21-A | Lab Control Sample | 101 | 112 | 114 | 115 | 110 | 115 | 115 | 109 |

| | | 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) |
| 380-183575-6 | FB MOANALUA WELLS (331-22 | 103 | 114 | 104 | 104 | 102 | 107 | 89 | 88 |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065) | 104 | 116 | 117 | 120 | 102 | 126 | 106 | 100 |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | 112 | 120 | 112 | 105 | 110 | 123 | 102 | 97 |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | 101 | 104 | 105 | 103 | 102 | 108 | 94 | 94 |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) | 121 | 137 | 141 | 128 | 105 | 155 | 135 | 105 |
| 380-183578-E-2-A MS | Matrix Spike | 116 | 116 | 112 | 114 | 106 | 115 | 103 | 101 |
| 380-183578-F-2-A MSD | Matrix Spike Duplicate | 106 | 119 | 116 | 113 | 105 | 116 | 103 | 110 |
| LCS 380-188274/22-A | Lab Control Sample | 116 | 113 | 117 | 108 | 106 | 115 | 111 | 103 |
| MBL 380-188274/20-A | Method Blank | 102 | 108 | 105 | 100 | 96 | 115 | 96 | 101 |
| MRL 380-188274/21-A | Lab Control Sample | 109 | 120 | 116 | 117 | 111 | 119 | 107 | 106 |

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MBL 380-188274/20-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | MBL | MBL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <0.30 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <0.30 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.60 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <1.0 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.37 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.31 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.54 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.39 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.32 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.46 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorononanoic acid (PFNA) | <0.40 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.43 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.38 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.42 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluorobutanoic acid (PFBA) | <0.69 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <0.38 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <0.37 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <0.48 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <0.47 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <0.25 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <0.46 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <0.15 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoropentanoic acid (PFPeA) | <0.38 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.36 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <0.39 | | 2.0 | ng/L | | 11/24/25 06:04 | 11/24/25 20:32 | 1 |

| Isotope Dilution | MBL | MBL | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C3 HFPO-DA | 88 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C6 PFDA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C5 PFHxA | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C4 PFHpA | 115 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C8 PFOA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C9 PFNA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C7 PFUnA | 101 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C2 PFDoA | 98 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C4 PFBA | 102 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C5 PFPeA | 108 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C3 PFBS | 105 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |

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QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MBL 380-188274/20-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188274

| Isotope Dilution | MBL MBL | | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 13C3 PFHxS | 100 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C8 PFOS | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C2-4:2-FTS | 115 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C2-6:2-FTS | 96 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |
| 13C2-8:2-FTS | 101 | | 50 - 200 | 11/24/25 06:04 | 11/24/25 20:32 | 1 |

Lab Sample ID: LCS 380-188274/22-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec |
|--|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 121 | 116 | | ng/L | | 96 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 121 | 117 | | ng/L | | 97 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 121 | 95.6 | | ng/L | | 79 | 70 - 130 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 121 | 112 | | ng/L | | 93 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 121 | 105 | | ng/L | | 87 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 121 | 112 | | ng/L | | 92 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 121 | 111 | | ng/L | | 91 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 121 | 99.3 | | ng/L | | 82 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | 121 | 113 | | ng/L | | 93 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 121 | 110 | | ng/L | | 91 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 121 | 117 | | ng/L | | 97 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 121 | 100 | | ng/L | | 83 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 121 | 107 | | ng/L | | 88 | 70 - 130 |
| Perfluorobutanoic acid (PFBA) | 121 | 107 | | ng/L | | 88 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 121 | 119 | | ng/L | | 99 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 121 | 115 | | ng/L | | 95 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 121 | 118 | | ng/L | | 98 | 70 - 130 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 121 | 110 | | ng/L | | 91 | 70 - 130 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 121 | 112 | | ng/L | | 92 | 70 - 130 |
| Perfluoropentanoic acid (PFPeA) | 121 | 109 | | ng/L | | 90 | 70 - 130 |

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QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: LCS 380-188274/22-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Perfluoroheptanesulfonic acid (PFHpS) | 121 | 123 | | ng/L | | 102 | 70 - 130 |
| Perfluoropentanesulfonic acid (PFPeS) | 121 | 118 | | ng/L | | 98 | 70 - 130 |

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits |
|------------------|---------------|---------------|----------|
| 13C3 HFPO-DA | 107 | | 50 - 200 |
| 13C6 PFDA | 112 | | 50 - 200 |
| 13C5 PFHxA | 118 | | 50 - 200 |
| 13C4 PFHpA | 120 | | 50 - 200 |
| 13C8 PFOA | 118 | | 50 - 200 |
| 13C9 PFNA | 109 | | 50 - 200 |
| 13C7 PFUnA | 120 | | 50 - 200 |
| 13C2 PFDoA | 115 | | 50 - 200 |
| 13C4 PFBA | 116 | | 50 - 200 |
| 13C5 PFPeA | 113 | | 50 - 200 |
| 13C3 PFBS | 117 | | 50 - 200 |
| 13C3 PFHxS | 108 | | 50 - 200 |
| 13C8 PFOS | 106 | | 50 - 200 |
| 13C2-4:2-FTS | 115 | | 50 - 200 |
| 13C2-6:2-FTS | 111 | | 50 - 200 |
| 13C2-8:2-FTS | 103 | | 50 - 200 |

Lab Sample ID: MRL 380-188274/21-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.01 | 1.70 | J | ng/L | | 85 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 2.01 | 2.01 | J | ng/L | | 100 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 2.01 | 1.80 | J | ng/L | | 90 | 50 - 150 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 2.01 | 2.16 | J | ng/L | | 107 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 2.01 | 1.79 | J | ng/L | | 89 | 50 - 150 |
| Perfluorodecanoic acid (PFDA) | 2.01 | 1.90 | J | ng/L | | 95 | 50 - 150 |
| Perfluorododecanoic acid (PFDoA) | 2.01 | 1.93 | J | ng/L | | 96 | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA) | 2.01 | 1.85 | J | ng/L | | 92 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.01 | 1.83 | J | ng/L | | 91 | 50 - 150 |
| Perfluorohexanoic acid (PFHxA) | 2.01 | 1.91 | J | ng/L | | 95 | 50 - 150 |
| Perfluorononanoic acid (PFNA) | 2.01 | 1.99 | J | ng/L | | 99 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 2.01 | 1.88 | J | ng/L | | 94 | 50 - 150 |
| Perfluorooctanoic acid (PFOA) | 2.01 | 1.86 | J | ng/L | | 93 | 50 - 150 |

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QC Sample Results

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MRL 380-188274/21-A
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---|-------------|------------|---------------|------|---|------|-------------|
| Perfluoroundecanoic acid (PFUnA) | 2.01 | 1.89 | J | ng/L | | 94 | 50 - 150 |
| Perfluorobutanoic acid (PFBA) | 2.01 | 1.91 | J | ng/L | | 95 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 2.01 | 1.90 | J | ng/L | | 95 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 2.01 | 2.07 | J | ng/L | | 103 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 2.01 | 2.32 | J | ng/L | | 116 | 50 - 150 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 2.01 | 1.92 | J | ng/L | | 96 | 50 - 150 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | 2.01 | 1.89 | J | ng/L | | 94 | 50 - 150 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 2.01 | 1.77 | J | ng/L | | 88 | 50 - 150 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 2.01 | 1.75 | J | ng/L | | 87 | 50 - 150 |
| Perfluoropentanoic acid (PFPeA) | 2.01 | 1.70 | J | ng/L | | 85 | 50 - 150 |
| Perfluoroheptanesulfonic acid (PFHpS) | 2.01 | 1.87 | J | ng/L | | 93 | 50 - 150 |
| Perfluoropentanesulfonic acid (PFPeS) | 2.01 | 1.80 | J | ng/L | | 90 | 50 - 150 |

| Isotope Dilution | MRL %Recovery | MRL Qualifier | Limits |
|------------------|---------------|---------------|----------|
| 13C3 HFPO-DA | 101 | | 50 - 200 |
| 13C6 PFDA | 112 | | 50 - 200 |
| 13C5 PFHxA | 114 | | 50 - 200 |
| 13C4 PFHpA | 115 | | 50 - 200 |
| 13C8 PFOA | 110 | | 50 - 200 |
| 13C9 PFNA | 115 | | 50 - 200 |
| 13C7 PFUnA | 115 | | 50 - 200 |
| 13C2 PFDoA | 109 | | 50 - 200 |
| 13C4 PFBA | 109 | | 50 - 200 |
| 13C5 PFPeA | 120 | | 50 - 200 |
| 13C3 PFBS | 116 | | 50 - 200 |
| 13C3 PFHxS | 117 | | 50 - 200 |
| 13C8 PFOS | 111 | | 50 - 200 |
| 13C2-4:2-FTS | 119 | | 50 - 200 |
| 13C2-6:2-FTS | 107 | | 50 - 200 |
| 13C2-8:2-FTS | 106 | | 50 - 200 |

Lab Sample ID: 380-183578-E-2-A MS
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 121 | 106 | | ng/L | | 88 | 70 - 130 |

QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183578-E-2-A MS
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec Limits |
|--|--------|-----------|-------|--------|-----------|------|---|------|----------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 121 | 97.6 | | ng/L | | 81 | 70 - 130 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 121 | 105 | | ng/L | | 87 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 121 | 109 | | ng/L | | 91 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 121 | 97.8 | | ng/L | | 81 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 121 | 107 | | ng/L | | 89 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 121 | 100 | | ng/L | | 83 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 121 | 98.6 | | ng/L | | 82 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 121 | 112 | | ng/L | | 93 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 121 | 117 | | ng/L | | 97 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 121 | 113 | | ng/L | | 94 | 70 - 130 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 121 | 112 | | ng/L | | 93 | 70 - 130 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 121 | 108 | | ng/L | | 90 | 70 - 130 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 121 | 106 | | ng/L | | 88 | 70 - 130 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 121 | 104 | | ng/L | | 86 | 70 - 130 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 121 | 104 | | ng/L | | 86 | 70 - 130 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 121 | 114 | | ng/L | | 94 | 70 - 130 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 121 | 99.6 | | ng/L | | 82 | 70 - 130 |

| Isotope Dilution | MS | MS | Limits |
|------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 13C3 HFPO-DA | 109 | | 50 - 200 |
| 13C6 PFDA | 106 | | 50 - 200 |
| 13C5 PFHxA | 108 | | 50 - 200 |
| 13C4 PFHpA | 109 | | 50 - 200 |
| 13C8 PFOA | 110 | | 50 - 200 |
| 13C9 PFNA | 106 | | 50 - 200 |
| 13C7 PFUnA | 103 | | 50 - 200 |
| 13C2 PFDoA | 107 | | 50 - 200 |

QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183578-E-2-A MS
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 188274

| <i>Isotope Dilution</i> | <i>%Recovery</i> | <i>MS MS Qualifier</i> | <i>Limits</i> |
|-------------------------|------------------|----------------------------|---------------|
| 13C4 PFBA | 116 | | 50 - 200 |
| 13C5 PFPeA | 116 | | 50 - 200 |
| 13C3 PFBS | 112 | | 50 - 200 |
| 13C3 PFHxS | 114 | | 50 - 200 |
| 13C8 PFOS | 106 | | 50 - 200 |
| 13C2-4:2-FTS | 115 | | 50 - 200 |
| 13C2-6:2-FTS | 103 | | 50 - 200 |
| 13C2-8:2-FTS | 101 | | 50 - 200 |

Lab Sample ID: 380-183578-F-2-A MSD
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 188274

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qualifier</i> | <i>Spike Added</i> | <i>MSD Result</i> | <i>MSD Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec Limits</i> | <i>RPD</i> | <i>RPD Limit</i> |
|---|----------------------|-------------------------|--------------------|-------------------|----------------------|-------------|----------|-------------|--------------------|------------|------------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 121 | 113 | | ng/L | | 93 | 70 - 130 | 6 | 30 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 121 | 119 | | ng/L | | 98 | 70 - 130 | 9 | 30 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 121 | 102 | | ng/L | | 84 | 70 - 130 | 4 | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 121 | 117 | | ng/L | | 97 | 70 - 130 | 8 | 30 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 121 | 104 | | ng/L | | 86 | 70 - 130 | 3 | 30 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 | 1 | 30 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 121 | 112 | | ng/L | | 93 | 70 - 130 | 4 | 30 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 | 2 | 30 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 | 10 | 30 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 121 | 102 | | ng/L | | 84 | 70 - 130 | 6 | 30 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 121 | 110 | | ng/L | | 91 | 70 - 130 | 3 | 30 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 121 | 111 | | ng/L | | 92 | 70 - 130 | 4 | 30 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 121 | 95.5 | | ng/L | | 79 | 70 - 130 | 5 | 30 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 121 | 110 | | ng/L | | 91 | 70 - 130 | 1 | 30 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 121 | 112 | | ng/L | | 93 | 70 - 130 | 13 | 30 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 121 | 113 | | ng/L | | 94 | 70 - 130 | 1 | 30 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 121 | 114 | | ng/L | | 94 | 70 - 130 | 3 | 30 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 121 | 112 | | ng/L | | 92 | 70 - 130 | 2 | 30 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 | 3 | 30 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 | 0 | 30 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 | 2 | 30 |

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QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183578-F-2-A MSD
Matrix: Water
Analysis Batch: 188424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 188274

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|--|--------|------------------|------------------|---------------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 121 | 105 | | ng/L | | 87 | 70 - 130 | 1 | 30 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 121 | 100 | | ng/L | | 83 | 70 - 130 | 4 | 30 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 121 | 116 | | ng/L | | 96 | 70 - 130 | 2 | 30 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 121 | 107 | | ng/L | | 89 | 70 - 130 | 7 | 30 |
| | | MSD | MSD | | | | | | | | |
| Isotope Dilution | | %Recovery | Qualifier | Limits | | | | | | | |
| 13C3 HFPO-DA | | 110 | | 50 - 200 | | | | | | | |
| 13C6 PFDA | | 109 | | 50 - 200 | | | | | | | |
| 13C5 PFHxA | | 115 | | 50 - 200 | | | | | | | |
| 13C4 PFHpA | | 109 | | 50 - 200 | | | | | | | |
| 13C8 PFOA | | 111 | | 50 - 200 | | | | | | | |
| 13C9 PFNA | | 100 | | 50 - 200 | | | | | | | |
| 13C7 PFUnA | | 105 | | 50 - 200 | | | | | | | |
| 13C2 PFDoA | | 105 | | 50 - 200 | | | | | | | |
| 13C4 PFBA | | 106 | | 50 - 200 | | | | | | | |
| 13C5 PFPeA | | 119 | | 50 - 200 | | | | | | | |
| 13C3 PFBS | | 116 | | 50 - 200 | | | | | | | |
| 13C3 PFHxS | | 113 | | 50 - 200 | | | | | | | |
| 13C8 PFOS | | 105 | | 50 - 200 | | | | | | | |
| 13C2-4:2-FTS | | 116 | | 50 - 200 | | | | | | | |
| 13C2-6:2-FTS | | 103 | | 50 - 200 | | | | | | | |
| 13C2-8:2-FTS | | 110 | | 50 - 200 | | | | | | | |

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

Lab Sample ID: MBL 380-188113/22-A
Matrix: Water
Analysis Batch: 188304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188113

| 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 | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.43 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.42 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <0.58 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <0.42 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.46 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.54 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.38 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.31 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.32 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.37 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.39 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorononanoic acid (PFNA) | <0.40 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <0.54 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |

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QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MBL 380-188113/22-A
Matrix: Water
Analysis Batch: 188304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188113

| Analyte | MBL | MBL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|------------------|----------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Perfluorotridecanoic acid (PFTTrDA) | <0.36 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <0.30 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <0.30 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.60 | | 2.0 | ng/L | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| Surrogate | %Recovery | MBL Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 98 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 13C2 PFHxA | 112 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 13C2 PFDA | 108 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |
| 13C3-GenX | 108 | | 70 - 130 | | | 11/22/25 07:45 | 11/24/25 11:09 | 1 |

Lab Sample ID: LCS 380-188113/24-A
Matrix: Water
Analysis Batch: 188304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188113

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|--|----------------|--------|-----------|------|---|------|----------------|
| | | Result | Qualifier | | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 25.0 | 23.6 | | ng/L | | 94 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 25.0 | 24.9 | | ng/L | | 99 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 25.0 | 26.5 | | ng/L | | 106 | 70 - 130 |
| N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA) | 25.0 | 25.1 | | ng/L | | 100 | 70 - 130 |
| N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA) | 25.0 | 25.0 | | ng/L | | 100 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | 25.0 | 24.3 | | ng/L | | 97 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 25.0 | 25.2 | | ng/L | | 101 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 25.0 | 25.1 | | ng/L | | 100 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 25.0 | 25.2 | | ng/L | | 101 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | 25.0 | 25.7 | | ng/L | | 103 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 25.0 | 25.8 | | ng/L | | 103 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 25.0 | 24.7 | | ng/L | | 99 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 25.0 | 25.5 | | ng/L | | 102 | 70 - 130 |
| Perfluorotetradecanoic acid (PFTA) | 25.0 | 22.8 | | ng/L | | 91 | 70 - 130 |
| Perfluorotridecanoic acid (PFTTrDA) | 25.0 | 26.1 | | ng/L | | 105 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS) | 25.0 | 25.6 | | ng/L | | 102 | 70 - 130 |
| 11-Chloroeicosafuoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS) | 25.0 | 25.2 | | ng/L | | 101 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 25.0 | 23.5 | | ng/L | | 94 | 70 - 130 |

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QC Sample Results

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

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

| Surrogate | LCS LCS | | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| d5-NEtFOSAA | 110 | | 70 - 130 |
| 13C2 PFHxA | 104 | | 70 - 130 |
| 13C2 PFDA | 109 | | 70 - 130 |
| 13C3-GenX | 100 | | 70 - 130 |

Lab Sample ID: MRL 380-188113/23-A
Matrix: Water
Analysis Batch: 188304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188113

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|------------|---------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 2.00 | 1.82 | J | ng/L | | 91 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 2.00 | 2.34 | J | ng/L | | 117 | 50 - 150 |
| Perfluoroundecanoic acid (PFUnA) | 2.00 | 2.22 | J | ng/L | | 111 | 50 - 150 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2.00 | 2.08 | J | ng/L | | 104 | 50 - 150 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 2.00 | 2.13 | J | ng/L | | 106 | 50 - 150 |
| Perfluorohexanoic acid (PFHxA) | 2.00 | 2.02 | J | ng/L | | 101 | 50 - 150 |
| Perfluorododecanoic acid (PFDoA) | 2.00 | 2.17 | J | ng/L | | 108 | 50 - 150 |
| Perfluorooctanoic acid (PFOA) | 2.00 | 2.19 | J | ng/L | | 109 | 50 - 150 |
| Perfluorodecanoic acid (PFDA) | 2.00 | 2.13 | J | ng/L | | 106 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.00 | 2.40 | J | ng/L | | 120 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 2.00 | 2.26 | J | ng/L | | 113 | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA) | 2.00 | 2.02 | J | ng/L | | 101 | 50 - 150 |
| Perfluorononanoic acid (PFNA) | 2.00 | 2.27 | J | ng/L | | 113 | 50 - 150 |
| Perfluorotetradecanoic acid (PFTA) | 2.00 | 1.89 | J | ng/L | | 94 | 50 - 150 |
| Perfluorotridecanoic acid (PFTrDA) | 2.00 | 2.23 | J | ng/L | | 111 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 2.00 | 2.24 | J | ng/L | | 112 | 50 - 150 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.00 | 2.21 | J | ng/L | | 110 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 2.00 | 1.99 | J | ng/L | | 99 | 50 - 150 |

| Surrogate | MRL MRL | | Limits |
|-------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| d5-NEtFOSAA | 97 | | 70 - 130 |
| 13C2 PFHxA | 95 | | 70 - 130 |
| 13C2 PFDA | 104 | | 70 - 130 |
| 13C3-GenX | 88 | | 70 - 130 |

QC Sample Results

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-4 MSD

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 188304

Prep Batch: 188113

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | RPD |
|--|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 25.2 | 27.0 | | ng/L | | 107 | 70 - 130 | 4 | 30 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 25.2 | 25.7 | | ng/L | | 102 | 70 - 130 | 3 | 30 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 25.2 | 25.9 | | ng/L | | 100 | 70 - 130 | 0 | 30 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 25.2 | 25.6 | | ng/L | | 102 | 70 - 130 | 1 | 30 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 25.2 | 26.4 | | ng/L | | 105 | 70 - 130 | 2 | 30 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 25.2 | 26.5 | | ng/L | | 105 | 70 - 130 | 4 | 30 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 25.2 | 27.9 | | ng/L | | 109 | 70 - 130 | 3 | 30 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 25.2 | 26.6 | | ng/L | | 106 | 70 - 130 | 4 | 30 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 25.2 | 26.3 | | ng/L | | 104 | 70 - 130 | 3 | 30 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 25.2 | 25.9 | | ng/L | | 103 | 70 - 130 | 2 | 30 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 25.2 | 21.8 | | ng/L | | 87 | 70 - 130 | 7 | 30 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 25.2 | 27.4 | | ng/L | | 109 | 70 - 130 | 4 | 30 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | <2.0 | | 25.2 | 26.9 | | ng/L | | 107 | 70 - 130 | 2 | 30 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 25.2 | 26.5 | | ng/L | | 105 | 70 - 130 | 6 | 30 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 25.2 | 25.5 | | ng/L | | 101 | 70 - 130 | 0 | 30 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-------------|---------------|---------------|----------|
| d5-NEtFOSAA | 112 | | 70 - 130 |
| 13C2 PFHxA | 106 | | 70 - 130 |
| 13C2 PFDA | 110 | | 70 - 130 |
| 13C3-GenX | 99 | | 70 - 130 |

QC Association Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

LCMS

Prep Batch: 188113

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--|-----------|----------------|----------|------------|
| 380-183575-1 | MOANALUA WELLS (331-223-TP202) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP02) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-6 | FB MOANALUA WELLS (331-223-TP202) | Total/NA | Water | 537.1 DW | |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01) | Total/NA | Water | 537.1 DW | |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Water | 537.1 DW | |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Water | 537.1 DW | |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP02) | Total/NA | Water | 537.1 DW | |
| MBL 380-188113/22-A | Method Blank | Total/NA | Water | 537.1 DW | |
| LCS 380-188113/24-A | Lab Control Sample | Total/NA | Water | 537.1 DW | |
| MRL 380-188113/23-A | Lab Control Sample | Total/NA | Water | 537.1 DW | |
| 380-183575-4 MS | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 DW | |
| 380-183575-4 MSD | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 DW | |

Prep Batch: 188274

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|--|-----------|----------------|--------|------------|
| 380-183575-1 | MOANALUA WELLS (331-223-TP202) | Total/NA | Drinking Water | 533 | |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01) | Total/NA | Drinking Water | 533 | |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Drinking Water | 533 | |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 533 | |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP02) | Total/NA | Drinking Water | 533 | |
| 380-183575-6 | FB MOANALUA WELLS (331-223-TP202) | Total/NA | Water | 533 | |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01) | Total/NA | Water | 533 | |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Water | 533 | |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Water | 533 | |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP02) | Total/NA | Water | 533 | |
| MBL 380-188274/20-A | Method Blank | Total/NA | Water | 533 | |
| LCS 380-188274/22-A | Lab Control Sample | Total/NA | Water | 533 | |
| MRL 380-188274/21-A | Lab Control Sample | Total/NA | Water | 533 | |
| 380-183578-E-2-A MS | Matrix Spike | Total/NA | Water | 533 | |
| 380-183578-F-2-A MSD | Matrix Spike Duplicate | Total/NA | Water | 533 | |

Analysis Batch: 188304

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--|-----------|----------------|--------|------------|
| 380-183575-1 | MOANALUA WELLS (331-223-TP202) | Total/NA | Drinking Water | 537.1 | 188113 |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01) | Total/NA | Drinking Water | 537.1 | 188113 |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Drinking Water | 537.1 | 188113 |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 | 188113 |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP02) | Total/NA | Drinking Water | 537.1 | 188113 |
| 380-183575-6 | FB MOANALUA WELLS (331-223-TP202) | Total/NA | Water | 537.1 | 188113 |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01) | Total/NA | Water | 537.1 | 188113 |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Water | 537.1 | 188113 |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Water | 537.1 | 188113 |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP02) | Total/NA | Water | 537.1 | 188113 |
| MBL 380-188113/22-A | Method Blank | Total/NA | Water | 537.1 | 188113 |
| LCS 380-188113/24-A | Lab Control Sample | Total/NA | Water | 537.1 | 188113 |
| MRL 380-188113/23-A | Lab Control Sample | Total/NA | Water | 537.1 | 188113 |
| 380-183575-4 MS | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 | 188113 |

QC Association Summary

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

LCMS (Continued)

Analysis Batch: 188304 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|---|-----------|----------------|--------|------------|
| 380-183575-4 MSD | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 537.1 | 188113 |

Analysis Batch: 188424

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---|-----------|----------------|--------|------------|
| 380-183575-1 | MOANALUA WELLS (331-223-TP202) | Total/NA | Drinking Water | 533 | 188274 |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP071) | Total/NA | Drinking Water | 533 | 188274 |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Drinking Water | 533 | 188274 |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Drinking Water | 533 | 188274 |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP072) | Total/NA | Drinking Water | 533 | 188274 |
| 380-183575-6 | FB MOANALUA WELLS (331-223-TP202) | Total/NA | Water | 533 | 188274 |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP071) | Total/NA | Water | 533 | 188274 |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Total/NA | Water | 533 | 188274 |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Total/NA | Water | 533 | 188274 |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP072) | Total/NA | Water | 533 | 188274 |
| MBL 380-188274/20-A | Method Blank | Total/NA | Water | 533 | 188274 |
| LCS 380-188274/22-A | Lab Control Sample | Total/NA | Water | 533 | 188274 |
| MRL 380-188274/21-A | Lab Control Sample | Total/NA | Water | 533 | 188274 |
| 380-183578-E-2-A MS | Matrix Spike | Total/NA | Water | 533 | 188274 |
| 380-183578-F-2-A MSD | Matrix Spike Duplicate | Total/NA | Water | 533 | 188274 |

Lab Chronicle

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-1

Date Collected: 11/17/25 09:57

Matrix: Drinking Water

Date Received: 11/19/25 09:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 21:48 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 12:28 |

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

Lab Sample ID: 380-183575-2

Date Collected: 11/17/25 10:23

Matrix: Drinking Water

Date Received: 11/19/25 09:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 21:58 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 12:38 |

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

Lab Sample ID: 380-183575-3

Date Collected: 11/17/25 10:50

Matrix: Drinking Water

Date Received: 11/19/25 09:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 22:07 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 12:47 |

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

Lab Sample ID: 380-183575-4

Date Collected: 11/17/25 11:09

Matrix: Drinking Water

Date Received: 11/19/25 09:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 22:17 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 11:39 |

Lab Chronicle

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

Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
 P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
 (331-203-TP400)**

Lab Sample ID: 380-183575-5

Date Collected: 11/17/25 11:30
Date Received: 11/19/25 09:50

Matrix: Drinking Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 22:27 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 12:57 |

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

Lab Sample ID: 380-183575-6

Date Collected: 11/17/25 09:57
Date Received: 11/19/25 09:50

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 22:36 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 13:07 |

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

Lab Sample ID: 380-183575-7

Date Collected: 11/17/25 10:23
Date Received: 11/19/25 09:50

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 22:46 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 13:16 |

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

Lab Sample ID: 380-183575-8

Date Collected: 11/17/25 10:50
Date Received: 11/19/25 09:50

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 23:05 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 13:26 |

Lab Chronicle

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-183575-9

**Date Collected: 11/17/25 11:09
Date Received: 11/19/25 09:50**

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 23:14 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 13:47 |

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

Lab Sample ID: 380-183575-10

**Date Collected: 11/17/25 11:30
Date Received: 11/19/25 09:50**

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 188274 | XTD8 | EA POM | 11/24/25 06:04 |
| Total/NA | Analysis | 533 | | 1 | 188424 | SZ9R | EA POM | 11/24/25 23:24 |
| Total/NA | Prep | 537.1 DW | | | 188113 | E9PK | EA POM | 11/22/25 07:45 |
| Total/NA | Analysis | 537.1 | | 1 | 188304 | M7ML | EA POM | 11/24/25 13:58 |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

Method Summary

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

Job ID: 380-183575-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

| 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

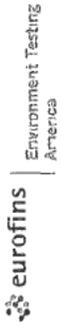
Job ID: 380-183575-1
 SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch
 Wells P1/P2, Aiea Wells Pumps 1&2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Sample Origin |
|---------------|--|----------------|----------------|----------------|---------------|
| 380-183575-1 | MOANALUA WELLS (331-223-TP202) | Drinking Water | 11/17/25 09:57 | 11/19/25 09:50 | Hawaii |
| 380-183575-2 | HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065) | Drinking Water | 11/17/25 10:23 | 11/19/25 09:50 | Hawaii |
| 380-183575-3 | AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Drinking Water | 11/17/25 10:50 | 11/19/25 09:50 | Hawaii |
| 380-183575-4 | AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Drinking Water | 11/17/25 11:09 | 11/19/25 09:50 | Hawaii |
| 380-183575-5 | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400) | Drinking Water | 11/17/25 11:30 | 11/19/25 09:50 | Hawaii |
| 380-183575-6 | FB MOANALUA WELLS (331-223-TP202) | Water | 11/17/25 09:57 | 11/19/25 09:50 | Hawaii |
| 380-183575-7 | FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065) | Water | 11/17/25 10:23 | 11/19/25 09:50 | Hawaii |
| 380-183575-8 | FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) | Water | 11/17/25 10:50 | 11/19/25 09:50 | Hawaii |
| 380-183575-9 | FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) | Water | 11/17/25 11:09 | 11/19/25 09:50 | Hawaii |
| 380-183575-10 | FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) | Water | 11/17/25 11:30 | 11/19/25 09:50 | Hawaii |



Moanaloa, CA (Suite 100)
 50 Royal Oaks Drive Suite 100
 Moanaloa CA 91016
 Phone (626) 386-1100

Chain of Custody Record



| | | | | | |
|---|--|---|---|---|--|
| Client Information Client Contact: kirk Iwamoto Company: City & County of Honolulu Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI 96843 Phone: 808-748-5840 (tel) Email: kiwamoto@hbws.org Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill Site: | | Lab PM: Lopez, Maria E-Mail: Maria.Lopez@et.eurofins.us.com PWSID: | Carrier Tracking No(s): 380-27941-2757 2 State of Origin: | COC No: 380-27941-2757 2 Page: Page 2 of 2 Job #: | |
| Due Date Requested: TAT Requested (days): Compliance Project: Δ No PO #: C20525101 exp 05312023 WO #: | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> | Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> | SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs | 8015B_GRO_LL (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8 525.2_PRC (MOD) 525plus PLUS TICs 537_1_OW_PRC 537 1 Full List 533 All Analytes | Analysis Requested |
| Sample Date Sample Time Sample Type (C=Comp, G=grab) Preservation Code: | Matrix (W=water, S=solid, O=waste/oil, BT=BTissue, ASAP) | R A Q OA Y I 3 3 3 3 3 3 1 1 1 1 1 1 | Total Number of Containers | Special Instructions/Note chlorinated chlorinated chlorinated 380-183575 COC | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) |
| Sample Identification Moanalua Wells Halawa Wells Units 1&2 P1 Aiea Gulch Wells Pump 1 Aiea Gulch Wells Pump 2 Aiea Wells Pumps 1&2 (260) P2 FB Moanalua 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) | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | |
| 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) | Empty Kit Relinquished by: | Date: | Method of Shipment: FedEx 986180 Special Instructions/OC Requirements: | 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: 63854511 | |
| Relinquished by: | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | Date/Time: 18 November 2025 Date/Time: 18 November 2025 | |
| Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: (931A) 2.7+0.0-2.7 gel - frozen | Cooler Temperature(s) °C and Other Remarks: | Cooler Temperature(s) °C and Other Remarks: | |



ORIGIN ID HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 17NOV25
ACTWGT: 53.00 LB
CAD: 2588050552/INET/4535

BILL RECIPIENT

TO EUOFINS RECEIVING DEPARTMENT
EUOFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

58HJA/D239/59F2

POMONA CA 91768

REF: (626) 386-1100

INV

PO:

DEPT.



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TRK# 8861 2110 8458

0201
MASTER

WM ONTA

91768

CA-US ONT

TUE - 18 NOV 10:30A
PRIORITY OVERNIGHT



(631A) 46+0048 gel-frozen

Manjit Naikurata 11/19/25 950

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-183575-1

SDG Number: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells P1/P2, Aiea Wells Pumps 1&2

Login Number: 183575

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

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

