

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly PFAS  
RUSH Weekly Red Hill

## JOB NUMBER

380-153640-1

# 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: 380-153640-1  
SDG: Weekly PFAS

## Qualifiers

### LCMS

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

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

Job ID: 380-153640-1

**Job ID: 380-153640-1**

**Eurofins Eaton Analytical Pomona**

### **Job Narrative 380-153640-1**

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

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

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

#### **Receipt**

The samples were received on 6/4/2025 9:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3°C, 1.4°C, 2.5°C and 3.0°C.

#### **PFAS**

Method 533: The method reporting limit check (MRL) for preparation batch 380-156553 and analytical batch 380-156645 was spiked at mid level concentration while the LCS was spiked at 1.5x the MRL. The recoveries are within limits (70-130%). No impact to the sample results as samples are ND. (XWB4)

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

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## Detection Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

**Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-153640-1**

☐ No Detections.

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**  
**(331-203-TP400)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-153640-2**

☐ No Detections.

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

**Lab Sample ID: 380-153640-3**

☐ No Detections.

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

**Lab Sample ID: 380-153640-4**

☐ No Detections.

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

**Lab Sample ID: 380-153640-5**

☐ No Detections.

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

**Lab Sample ID: 380-153640-6**

☐ No Detections.

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

**Lab Sample ID: 380-153640-7**

☐ No Detections.

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

**Lab Sample ID: 380-153640-8**

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

**Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)**

**Lab Sample ID: 380-153640-1**

**Date Collected: 06/02/25 09:20**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                                | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11CI-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9CI-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEEESA)                  | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoro-3-methoxypropanoic acid<br>(PFMPA)                           | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoro-4-methoxybutanoic acid<br>(PFMBA)                            | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoropentanoic acid (PFPeA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoroheptanesulfonic acid<br>(PFHpS)                               | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| Perfluoropentanesulfonic acid<br>(PFPeS)                               | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:46 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 78        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C6 PFDA        | 83        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C5 PFHxA       | 84        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C4 PFHpA       | 81        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C8 PFOA        | 79        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C9 PFNA        | 83        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C7 PFUnA       | 86        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C2 PFDoA       | 89        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C4 PFBA        | 88        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C5 PFPeA       | 88        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C3 PFBS        | 100       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C3 PFHxS       | 100       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C8 PFOS        | 101       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

**Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)**

**Lab Sample ID: 380-153640-1**

**Date Collected: 06/02/25 09:20**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2-4:2-FTS     | 113       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C2-6:2-FTS     | 112       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:46 | 1       |
| 13C2-8:2-FTS     | 113       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 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 |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| Surrogate                                                          | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                                        | 101       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 13C2 PFHxA                                                         | 106       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 13C2 PFDA                                                          | 111       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |
| 13C3-GenX                                                          | 105       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:00 | 1       |

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

**Lab Sample ID: 380-153640-2**

**Date Collected: 06/02/25 10:40**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                            | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-2**

**Date Collected: 06/02/25 10:40**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                             | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| Perfluorodecanoic acid (PFDA)                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorododecanoic acid (PFDoA)                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoroheptanoic acid (PFHpA)                     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorohexanoic acid (PFHxA)                      | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorononanoic acid (PFNA)                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorooctanoic acid (PFOA)                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoroundecanoic acid (PFUnA)                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluorobutanoic acid (PFBA)                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)         | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoropentanoic acid (PFPeA)                     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)               | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)               | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 22:55 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 72        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C6 PFDA        | 76        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C5 PFHxA       | 79        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C4 PFHpA       | 78        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C8 PFOA        | 73        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C9 PFNA        | 74        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C7 PFUnA       | 80        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C2 PFDoA       | 82        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C4 PFBA        | 88        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C5 PFPeA       | 87        |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C3 PFBS        | 100       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C3 PFHxS       | 106       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C8 PFOS        | 102       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C2-4:2-FTS     | 118       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C2-6:2-FTS     | 111       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 1       |
| 13C2-8:2-FTS     | 114       |           | 50 - 200 | 06/08/25 15:27 | 06/09/25 22:55 | 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 |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-2**

**Date Collected: 06/02/25 10:40**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                            | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| Surrogate                                                          | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                                        | 108       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 13C2 PFHxA                                                         | 117       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 13C2 PFDA                                                          | 116       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |
| 13C3-GenX                                                          | 112       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:09 | 1       |

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

**Lab Sample ID: 380-153640-3**

**Date Collected: 06/02/25 10:10**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                            | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-3**

**Date Collected: 06/02/25 10:10**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                             | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorooctanesulfonic acid (PFOS)                 | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorooctanoic acid (PFOA)                       | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoroundecanoic acid (PFUnA)                    | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluorobutanoic acid (PFBA)                       | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)          | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoropentanoic acid (PFPeA)                     | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)               | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)               | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| Isotope Dilution                                    | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA                                        | 83        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C6 PFDA                                           | 86        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C5 PFHxA                                          | 84        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C4 PFHpA                                          | 85        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C8 PFOA                                           | 83        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C9 PFNA                                           | 86        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C7 PFUnA                                          | 87        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C2 PFDoA                                          | 88        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C4 PFBA                                           | 92        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C5 PFPeA                                          | 91        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C3 PFBS                                           | 100       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C3 PFHxS                                          | 103       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C8 PFOS                                           | 100       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C2-4:2-FTS                                        | 112       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C2-6:2-FTS                                        | 111       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:05 | 1       |
| 13C2-8:2-FTS                                        | 112       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 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 |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-3**

Date Collected: 06/02/25 10:10

Matrix: Drinking Water

Date Received: 06/04/25 09:47

PWSID Number: HI0000331

## 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 |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| Surrogate                                                              | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                                            | 103       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 13C2 PFHxA                                                             | 112       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 13C2 PFDA                                                              | 121       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |
| 13C3-GenX                                                              | 114       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:19 | 1       |

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

**Lab Sample ID: 380-153640-4**

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

PWSID Number: HI0000331

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

| Analyte                                                                | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-4**

**Date Collected: 06/02/25 10:15**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                             | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)          | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoropentanoic acid (PFPeA)                     | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)               | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)               | <2.0      |           | 2.0      | ng/L |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| Isotope Dilution                                    | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA                                        | 66        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C6 PFDA                                           | 73        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C5 PFHxA                                          | 72        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C4 PFHpA                                          | 70        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C8 PFOA                                           | 69        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C9 PFNA                                           | 72        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C7 PFUnA                                          | 78        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C2 PFDoA                                          | 81        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C4 PFBA                                           | 77        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C5 PFPeA                                          | 75        |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C3 PFBS                                           | 104       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C3 PFHxS                                          | 108       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C8 PFOS                                           | 103       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C2-4:2-FTS                                        | 118       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C2-6:2-FTS                                        | 114       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 1       |
| 13C2-8:2-FTS                                        | 114       |           | 50 - 200 |      |   | 06/08/25 15:27 | 06/09/25 23:15 | 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 |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorooctanoic acid (PFOA)                            | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorodecanoic acid (PFDA)                            | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-4**

**Date Collected: 06/02/25 10:15**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

## 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 |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Perfluorotridecanoic acid (PFTDA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| Surrogate                                                              | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                                            | 104       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 13C2 PFHxA                                                             | 110       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 13C2 PFDA                                                              | 117       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |
| 13C3-GenX                                                              | 113       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:29 | 1       |

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

**Lab Sample ID: 380-153640-5**

**Date Collected: 06/02/25 09:20**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                                | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEEA)                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153640-5

Date Collected: 06/02/25 09:20

Matrix: Water

Date Received: 06/04/25 09:47

PWSID Number: HI0000331

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

| Analyte                                   | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)  | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoropentanoic acid (PFPeA)           | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)     | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)     | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| Isotope Dilution                          | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA                              | 94        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C6 PFDA                                 | 102       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C5 PFHxA                                | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C4 PFHpA                                | 110       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C8 PFOA                                 | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C9 PFNA                                 | 103       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C7 PFUnA                                | 99        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C2 PFDoA                                | 98        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C4 PFBA                                 | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C5 PFPeA                                | 105       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C3 PFBS                                 | 102       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C3 PFHxS                                | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C8 PFOS                                 | 102       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C2-4:2-FTS                              | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C2-6:2-FTS                              | 102       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |
| 13C2-8:2-FTS                              | 93        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:21 | 1       |

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

| Analyte                                                            | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-5**

**Date Collected: 06/02/25 09:20**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                     | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| Surrogate                                   | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                 | 96        |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| 13C2 PFHxA                                  | 106       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| 13C2 PFDA                                   | 113       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |
| 13C3-GenX                                   | 103       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:38 | 1       |

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

**Lab Sample ID: 380-153640-6**

**Date Collected: 06/02/25 10:40**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                             | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                         | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorodecanoic acid (PFDA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorododecanoic acid (PFDoA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorohexanoic acid (PFHxA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorononanoic acid (PFNA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorooctanoic acid (PFOA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluorobutanoic acid (PFBA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)                  | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                           | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                            | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoropentanoic acid (PFPeA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)                               | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153640-6

Date Collected: 06/02/25 10:40

Matrix: Water

Date Received: 06/04/25 09:47

PWSID Number: HI0000331

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

| Analyte                               | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluoropentanesulfonic acid (PFPeS) | <2.0      |           | 2.0      | ng/L |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| Isotope Dilution                      | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C3 HFPO-DA                          | 92        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C6 PFDA                             | 101       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C5 PFHxA                            | 103       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C4 PFHpA                            | 108       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C8 PFOA                             | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C9 PFNA                             | 100       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C7 PFUnA                            | 99        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C2 PFDoA                            | 99        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C4 PFBA                             | 101       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C5 PFPeA                            | 106       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C3 PFBS                             | 100       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C3 PFHxS                            | 100       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C8 PFOS                             | 100       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C2-4:2-FTS                          | 103       |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C2-6:2-FTS                          | 95        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 1       |
| 13C2-8:2-FTS                          | 92        |           | 50 - 200 |      |   | 06/06/25 16:28 | 06/07/25 13:30 | 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 |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0      |           | 2.0      | ng/L |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| Surrogate                                                          | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| d5-NEtFOSAA                                                        | 107       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| 13C2 PFHxA                                                         | 114       |           | 70 - 130 |      |   | 06/05/25 02:15 | 06/05/25 16:48 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-6**

**Date Collected: 06/02/25 10:40**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Surrogate | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2 PFDA | 114       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 16:48 | 1       |
| 13C3-GenX | 113       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 16:48 | 1       |

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

**Lab Sample ID: 380-153640-7**

**Date Collected: 06/02/25 10:10**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                               | Result           | Qualifier        | RL            | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------------------------------------------------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| 11-Chloroeicosafuoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)    | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                        | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorobutanesulfonic acid (PFBS)                                   | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorodecanoic acid (PFDA)                                         | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorododecanoic acid (PFDoA)                                      | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoroheptanoic acid (PFHpA)                                       | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorohexanesulfonic acid (PFHxS)                                  | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorohexanoic acid (PFHxA)                                        | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorononanoic acid (PFNA)                                         | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorooctanesulfonic acid (PFOS)                                   | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorooctanoic acid (PFOA)                                         | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoroundecanoic acid (PFUnA)                                      | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluorobutanoic acid (PFBA)                                         | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                         | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEEESA)                 | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoro-3-methoxypropanoic acid<br>(PFMPA)                          | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoro-4-methoxybutanoic acid<br>(PFMBA)                           | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoropentanoic acid (PFPeA)                                       | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoroheptanesulfonic acid<br>(PFHpS)                              | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| Perfluoropentanesulfonic acid<br>(PFPeS)                              | <2.0             |                  | 2.0           | ng/L |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| <i>Isotope Dilution</i>                                               | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> |      |   | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
| 13C3 HFPO-DA                                                          | 91               |                  | 50 - 200      |      |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |
| 13C6 PFDA                                                             | 100              |                  | 50 - 200      |      |   | 06/06/25 16:28  | 06/07/25 13:40  | 1              |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-7**

**Date Collected: 06/02/25 10:10**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C5 PFHxA       | 103       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C4 PFHpA       | 106       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C8 PFOA        | 103       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C9 PFNA        | 100       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C7 PFUnA       | 99        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C2 PFDoA       | 97        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C4 PFBA        | 108       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C5 PFPeA       | 108       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C3 PFBS        | 100       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C3 PFHxS       | 102       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C8 PFOS        | 101       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C2-4:2-FTS     | 98        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C2-6:2-FTS     | 95        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |
| 13C2-8:2-FTS     | 92        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:40 | 1       |

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

| Analyte                                                            | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:09 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 105       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 13C2 PFHxA  | 111       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 13C2 PFDA   | 118       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:09 | 1       |
| 13C3-GenX   | 107       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:09 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-8**

**Date Collected: 06/02/25 10:15**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Analyte                                                                | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                 | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                          | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEESA)                   | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoro-3-methoxypropanoic acid<br>(PFMPA)                           | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoro-4-methoxybutanoic acid<br>(PFMBA)                            | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoropentanoic acid (PFPeA)                                        | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoroheptanesulfonic acid<br>(PFHpS)                               | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| Perfluoropentanesulfonic acid<br>(PFPeS)                               | <2.0   |           | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 13:50 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 93        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C6 PFDA        | 105       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C5 PFHxA       | 102       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C4 PFHpA       | 108       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C8 PFOA        | 104       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C9 PFNA        | 103       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C7 PFUnA       | 96        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C2 PFDoA       | 98        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C4 PFBA        | 107       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C5 PFPeA       | 111       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C3 PFBS        | 100       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C3 PFHxS       | 103       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |

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# Client Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-8**

**Date Collected: 06/02/25 10:15**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

**PWSID Number: HI0000331**

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

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C8 PFOS        | 103       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C2-4:2-FTS     | 100       |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C2-6:2-FTS     | 97        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |
| 13C2-8:2-FTS     | 90        |           | 50 - 200 | 06/06/25 16:28 | 06/07/25 13:50 | 1       |

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

| Analyte                                                            | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorooctanoic acid (PFOA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorodecanoic acid (PFDA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorononanoic acid (PFNA)                                      | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0   |           | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 17:20 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 101       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 13C2 PFHxA  | 108       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 13C2 PFDA   | 112       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:20 | 1       |
| 13C3-GenX   | 110       |           | 70 - 130 | 06/05/25 02:15 | 06/05/25 17:20 | 1       |

## Action Limit Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

**Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)**

**Lab Sample ID: 380-153640-1**

**PWSID Number: HI0000331**

### Compliance Check

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

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

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

**Lab Sample ID: 380-153640-2**

**PWSID Number: HI0000331**

### Compliance Check

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

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

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

**Lab Sample ID: 380-153640-3**

**PWSID Number: HI0000331**

### Compliance Check

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

| Analyte                                             | Result | Qualifier | Unit | EPAMCL<br>Limit | RL  | Method | Prep Type |
|-----------------------------------------------------|--------|-----------|------|-----------------|-----|--------|-----------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0   |           | ng/L | 10              | 2.0 | 533    | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)                | <2.0   |           | ng/L | 10              | 2.0 | 533    | Total/NA  |

Eurofins Eaton Analytical Pomona

## Action Limit Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-3**

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

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

**Lab Sample ID: 380-153640-4**

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

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

**Lab Sample ID: 380-153640-5**

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

Eurofins Eaton Analytical Pomona

## Action Limit Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-5**

**(Continued)**

**PWSID Number: HI0000331**

### Compliance Check

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

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

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

**Lab Sample ID: 380-153640-6**

**(331-203-TP400)**

**PWSID Number: HI0000331**

### Compliance Check

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

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

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-153640-7**

**(331-201-TP071)**

**PWSID Number: HI0000331**

### Compliance Check

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

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

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# Action Limit Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-7**

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

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

**Lab Sample ID: 380-153640-8**

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

# Surrogate Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID                                 | Percent Surrogate Recovery (Acceptance Limits) |                   |                  |                  |
|---------------|--------------------------------------------------|------------------------------------------------|-------------------|------------------|------------------|
|               |                                                  | d5NEFOS<br>(70-130)                            | PFHxA<br>(70-130) | PFDA<br>(70-130) | GenX<br>(70-130) |
| 380-153640-1  | MOANALUA WELLS P3 (331-22                        | 101                                            | 106               | 111              | 105              |
| 380-153640-2  | AIEA WELLS PUMPS 1&2 (260)<br>P2 (331-203-TP400) | 108                                            | 117               | 116              | 112              |
| 380-153640-3  | AIEA GULCH WELLS PUMP 1<br>(331-201-TP071)       | 103                                            | 112               | 121              | 114              |
| 380-153640-4  | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072)       | 104                                            | 110               | 117              | 113              |

### 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<br>(70-130)                            | PFHxA<br>(70-130) | PFDA<br>(70-130) | GenX<br>(70-130) |
| 380-153640-5         | FB: MOANALUA WELLS (331-2                         | 96                                             | 106               | 113              | 103              |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2<br>(260) (331-203-TP400) | 107                                            | 114               | 114              | 113              |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMF<br>1 (331-201-TP071)    | 105                                            | 111               | 118              | 107              |
| 380-153640-8         | FB: AIEA GULCH WELLS PUMF<br>2 (331-202-TP072)    | 101                                            | 108               | 112              | 110              |
| 380-153644-E-1-A MS  | Matrix Spike                                      | 102                                            | 111               | 118              | 110              |
| 380-153644-F-1-A MSD | Matrix Spike Duplicate                            | 97                                             | 106               | 109              | 106              |
| LCS 380-156220/22-A  | Lab Control Sample                                | 100                                            | 106               | 113              | 106              |
| MBL 380-156220/20-A  | Method Blank                                      | 107                                            | 116               | 116              | 115              |
| MRL 380-156220/21-A  | Lab Control Sample                                | 99                                             | 110               | 111              | 109              |

### 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: 380-153640-1  
SDG: Weekly PFAS

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID                                 | HFPODA<br>(50-200) | C6PFDA<br>(50-200) | 13C5PHA<br>(50-200) | C4PFHA<br>(50-200) | C8PFOA<br>(50-200) | C9PFNA<br>(50-200) | 13C7PUA<br>(50-200) | PFDaA<br>(50-200) |
|---------------|--------------------------------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| 380-153640-1  | MOANALUA WELLS P3 (331-22                        | 78                 | 83                 | 84                  | 81                 | 79                 | 83                 | 86                  | 89                |
| 380-153640-2  | AIEA WELLS PUMPS 1&2 (260)<br>P2 (331-203-TP400) | 72                 | 76                 | 79                  | 78                 | 73                 | 74                 | 80                  | 82                |
| 380-153640-3  | AIEA GULCH WELLS PUMP 1<br>(331-201-TP071)       | 83                 | 86                 | 84                  | 85                 | 83                 | 86                 | 87                  | 88                |
| 380-153640-4  | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072)       | 66                 | 73                 | 72                  | 70                 | 69                 | 72                 | 78                  | 81                |

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID                                 | PFBA<br>(50-200) | PFPeA<br>(50-200) | C3PFBS<br>(50-200) | C3PFHS<br>(50-200) | C8PFOS<br>(50-200) | 42FTS<br>(50-200) | 62FTS<br>(50-200) | 82FTS<br>(50-200) |
|---------------|--------------------------------------------------|------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| 380-153640-1  | MOANALUA WELLS P3 (331-22                        | 88               | 88                | 100                | 100                | 101                | 113               | 112               | 113               |
| 380-153640-2  | AIEA WELLS PUMPS 1&2 (260)<br>P2 (331-203-TP400) | 88               | 87                | 100                | 106                | 102                | 118               | 111               | 114               |
| 380-153640-3  | AIEA GULCH WELLS PUMP 1<br>(331-201-TP071)       | 92               | 91                | 100                | 103                | 100                | 112               | 111               | 112               |
| 380-153640-4  | AIEA GULCH WELLS PUMP 2<br>(331-202-TP072)       | 77               | 75                | 104                | 108                | 103                | 118               | 114               | 114               |

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID                                  | HFPODA<br>(50-200) | C6PFDA<br>(50-200) | 13C5PHA<br>(50-200) | C4PFHA<br>(50-200) | C8PFOA<br>(50-200) | C9PFNA<br>(50-200) | 13C7PUA<br>(50-200) | PFDaA<br>(50-200) |
|----------------------|---------------------------------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| 380-153399-E-1-A MS  | Matrix Spike                                      | 80                 | 89                 | 88                  | 90                 | 89                 | 88                 | 91                  | 92                |
| 380-153399-F-1-A MSD | Matrix Spike Duplicate                            | 87                 | 95                 | 98                  | 100                | 95                 | 94                 | 92                  | 94                |
| 380-153424-E-2-A MSD | Matrix Spike Duplicate                            | 95                 | 97                 | 98                  | 94                 | 89                 | 95                 | 99                  | 101               |
| 380-153424-F-2-A MS  | Matrix Spike                                      | 99                 | 102                | 101                 | 98                 | 99                 | 100                | 105                 | 102               |
| 380-153640-5         | FB: MOANALUA WELLS<br>(331-223-TP202)             | 94                 | 102                | 106                 | 110                | 106                | 103                | 99                  | 98                |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2<br>(260) (331-203-TP400) | 92                 | 101                | 103                 | 108                | 106                | 100                | 99                  | 99                |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMF<br>1 (331-201-TP071)    | 91                 | 100                | 103                 | 106                | 103                | 100                | 99                  | 97                |

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# Isotope Dilution Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID          | HFPODA<br>(50-200) | C6PFDA<br>(50-200) | 13C5PHA<br>(50-200) | C4PFHA<br>(50-200) | C8PFOA<br>(50-200) | C9PFNA<br>(50-200) | 13C7PUA<br>(50-200) | PFDaA<br>(50-200) |
|---------------------|---------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| 380-153640-8        | FB: AIEA GULCH WELLS PUMF | 93                 | 105                | 102                 | 108                | 104                | 103                | 96                  | 98                |
| LCS 380-156553/24-A | Lab Control Sample        | 92                 | 109                | 107                 | 114                | 109                | 106                | 103                 | 101               |
| LCS 380-156681/24-A | Lab Control Sample        | 102                | 105                | 100                 | 102                | 102                | 105                | 104                 | 103               |
| MBL 380-156553/22-A | Method Blank              | 98                 | 102                | 110                 | 108                | 103                | 102                | 97                  | 95                |
| MBL 380-156681/22-A | Method Blank              | 100                | 106                | 105                 | 103                | 103                | 105                | 101                 | 102               |
| MRL 380-156553/23-A | Lab Control Sample        | 97                 | 101                | 105                 | 105                | 101                | 102                | 101                 | 96                |
| MRL 380-156681/23-A | Lab Control Sample        | 94                 | 103                | 97                  | 99                 | 104                | 103                | 96                  | 97                |

## Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID                                  | PFBA<br>(50-200) | PFPeA<br>(50-200) | C3PFBS<br>(50-200) | C3PFHS<br>(50-200) | C8PFOS<br>(50-200) | 42FTS<br>(50-200) | 62FTS<br>(50-200) | 82FTS<br>(50-200) |
|----------------------|---------------------------------------------------|------------------|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| 380-153399-E-1-A MS  | Matrix Spike                                      | 93               | 93                | 99                 | 101                | 104                | 102               | 92                | 87                |
| 380-153399-F-1-A MSD | Matrix Spike Duplicate                            | 97               | 96                | 103                | 108                | 105                | 102               | 97                | 90                |
| 380-153424-E-2-A MSD | Matrix Spike Duplicate                            | 103              | 107               | 104                | 108                | 103                | 115               | 114               | 116               |
| 380-153424-F-2-A MS  | Matrix Spike                                      | 107              | 116               | 104                | 105                | 102                | 117               | 116               | 115               |
| 380-153640-5         | FB: MOANALUA WELLS<br>(331-223-TP202)             | 106              | 105               | 102                | 106                | 102                | 106               | 102               | 93                |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2<br>(260) (331-203-TP400) | 101              | 106               | 100                | 100                | 100                | 103               | 95                | 92                |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMF<br>1 (331-201-TP071)    | 108              | 108               | 100                | 102                | 101                | 98                | 95                | 92                |
| 380-153640-8         | FB: AIEA GULCH WELLS PUMF<br>2 (331-202-TP072)    | 107              | 111               | 100                | 103                | 103                | 100               | 97                | 90                |
| LCS 380-156553/24-A  | Lab Control Sample                                | 107              | 109               | 103                | 104                | 105                | 97                | 94                | 87                |
| LCS 380-156681/24-A  | Lab Control Sample                                | 104              | 107               | 100                | 103                | 102                | 112               | 112               | 112               |
| MBL 380-156553/22-A  | Method Blank                                      | 106              | 107               | 105                | 104                | 105                | 104               | 99                | 88                |
| MBL 380-156681/22-A  | Method Blank                                      | 108              | 109               | 105                | 106                | 104                | 120               | 120               | 117               |
| MRL 380-156553/23-A  | Lab Control Sample                                | 108              | 109               | 100                | 101                | 105                | 100               | 97                | 89                |
| MRL 380-156681/23-A  | Lab Control Sample                                | 105              | 110               | 104                | 103                | 103                | 121               | 117               | 111               |

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-156553/22-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                                                | MBL Result | MBL Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|------------|---------------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | <0.30      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <0.30      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <0.60      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <1.0       |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <0.37      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <0.31      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <0.54      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <0.39      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <0.32      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <0.46      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <0.40      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <0.43      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <0.38      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <0.42      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <0.69      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <0.38      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                 | <0.37      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                 | <0.48      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                          | <0.47      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEESA)                   | <0.25      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoro-3-methoxypropanoic acid<br>(PFMPA)                           | <0.46      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoro-4-methoxybutanoic acid<br>(PFMBA)                            | <0.15      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoropentanoic acid (PFPeA)                                        | <0.38      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoroheptanesulfonic acid<br>(PFHpS)                               | <0.36      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| Perfluoropentanesulfonic acid<br>(PFPeS)                               | <0.39      |               | 2.0 | ng/L |   | 06/06/25 16:28 | 06/07/25 10:48 | 1       |

| Isotope Dilution | MBL %Recovery | MBL Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|---------------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 98            |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C6 PFDA        | 102           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C5 PFHxA       | 110           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C4 PFHpA       | 108           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C8 PFOA        | 103           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C9 PFNA        | 102           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C7 PFUnA       | 97            |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C2 PFDoA       | 95            |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C4 PFBA        | 106           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C5 PFPeA       | 107           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C3 PFBS        | 105           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C3 PFHxS       | 104           |               | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-156553/22-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156553

| Isotope Dilution | MBL<br>%Recovery | MBL<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|------------------|------------------|----------|----------------|----------------|---------|
| 13C8 PFOS        | 105              |                  | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C2-4:2-FTS     | 104              |                  | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C2-6:2-FTS     | 99               |                  | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |
| 13C2-8:2-FTS     | 88               |                  | 50 - 200 | 06/06/25 16:28 | 06/07/25 10:48 | 1       |

Lab Sample ID: LCS 380-156553/24-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                                            | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|--------------------------------------------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 3.01           | 3.25          |                  | ng/L |   | 108  | 70 - 130       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)    | 3.01           | 2.70          |                  | ng/L |   | 90   | 70 - 130       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | 3.01           | 2.96          |                  | ng/L |   | 98   | 70 - 130       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | 3.01           | 2.99          |                  | ng/L |   | 100  | 70 - 130       |
| Perfluorobutanesulfonic acid (PFBS)                                | 3.01           | 2.98          |                  | ng/L |   | 99   | 70 - 130       |
| Perfluorodecanoic acid (PFDA)                                      | 3.01           | 2.91          |                  | ng/L |   | 97   | 70 - 130       |
| Perfluorododecanoic acid (PFDoA)                                   | 3.01           | 2.98          |                  | ng/L |   | 99   | 70 - 130       |
| Perfluoroheptanoic acid (PFHpA)                                    | 3.01           | 2.97          |                  | ng/L |   | 99   | 70 - 130       |
| Perfluorohexanesulfonic acid (PFHxS)                               | 3.01           | 3.08          |                  | ng/L |   | 102  | 70 - 130       |
| Perfluorohexanoic acid (PFHxA)                                     | 3.01           | 2.94          |                  | ng/L |   | 98   | 70 - 130       |
| Perfluorononanoic acid (PFNA)                                      | 3.01           | 3.09          |                  | ng/L |   | 103  | 70 - 130       |
| Perfluorooctanesulfonic acid (PFOS)                                | 3.01           | 3.42          |                  | ng/L |   | 114  | 70 - 130       |
| Perfluorooctanoic acid (PFOA)                                      | 3.01           | 3.02          |                  | ng/L |   | 100  | 70 - 130       |
| Perfluoroundecanoic acid (PFUnA)                                   | 3.01           | 3.04          |                  | ng/L |   | 101  | 70 - 130       |
| Perfluorobutanoic acid (PFBA)                                      | 3.01           | 3.05          |                  | ng/L |   | 101  | 70 - 130       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)                | 3.01           | 3.16          |                  | ng/L |   | 105  | 70 - 130       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)                | 3.01           | 3.03          |                  | ng/L |   | 101  | 70 - 130       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)                | 3.01           | 3.20          |                  | ng/L |   | 107  | 70 - 130       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | 3.01           | 2.34          |                  | ng/L |   | 78   | 70 - 130       |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)                  | 3.01           | 2.68          |                  | ng/L |   | 89   | 70 - 130       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | 3.01           | 2.91          |                  | ng/L |   | 97   | 70 - 130       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | 3.01           | 2.82          |                  | ng/L |   | 94   | 70 - 130       |
| Perfluoropentanoic acid (PFPeA)                                    | 3.01           | 3.00          |                  | ng/L |   | 100  | 70 - 130       |
| Perfluoroheptanesulfonic acid (PFHpS)                              | 3.01           | 3.09          |                  | ng/L |   | 103  | 70 - 130       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-156553/24-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                               | Spike Added      | LCS Result       | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------------|------------------|------------------|---------------|------|---|------|-------------|
| Perfluoropentanesulfonic acid (PFPeS) | 3.01             | 3.03             |               | ng/L |   | 101  | 70 - 130    |
| <b>LCS LCS</b>                        |                  |                  |               |      |   |      |             |
| <b>Isotope Dilution</b>               | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |   |      |             |
| 13C3 HFPO-DA                          | 92               |                  | 50 - 200      |      |   |      |             |
| 13C6 PFDA                             | 109              |                  | 50 - 200      |      |   |      |             |
| 13C5 PFHxA                            | 107              |                  | 50 - 200      |      |   |      |             |
| 13C4 PFHpA                            | 114              |                  | 50 - 200      |      |   |      |             |
| 13C8 PFOA                             | 109              |                  | 50 - 200      |      |   |      |             |
| 13C9 PFNA                             | 106              |                  | 50 - 200      |      |   |      |             |
| 13C7 PFUnA                            | 103              |                  | 50 - 200      |      |   |      |             |
| 13C2 PFDoA                            | 101              |                  | 50 - 200      |      |   |      |             |
| 13C4 PFBA                             | 107              |                  | 50 - 200      |      |   |      |             |
| 13C5 PFPeA                            | 109              |                  | 50 - 200      |      |   |      |             |
| 13C3 PFBS                             | 103              |                  | 50 - 200      |      |   |      |             |
| 13C3 PFHxS                            | 104              |                  | 50 - 200      |      |   |      |             |
| 13C8 PFOS                             | 105              |                  | 50 - 200      |      |   |      |             |
| 13C2-4:2-FTS                          | 97               |                  | 50 - 200      |      |   |      |             |
| 13C2-6:2-FTS                          | 94               |                  | 50 - 200      |      |   |      |             |
| 13C2-8:2-FTS                          | 87               |                  | 50 - 200      |      |   |      |             |

Lab Sample ID: MRL 380-156553/23-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                                            | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 40.1        | 41.0       | J             | ng/L |   | 102  | 50 - 150    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)    | 40.1        | 35.1       | J             | ng/L |   | 88   | 50 - 150    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | 40.1        | 39.3       | J             | ng/L |   | 98   | 50 - 150    |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | 40.1        | 37.5       | J             | ng/L |   | 94   | 50 - 150    |
| Perfluorobutanesulfonic acid (PFBS)                                | 40.1        | 41.6       | J             | ng/L |   | 104  | 50 - 150    |
| Perfluorodecanoic acid (PFDA)                                      | 40.1        | 39.0       | J             | ng/L |   | 97   | 50 - 150    |
| Perfluorododecanoic acid (PFDoA)                                   | 40.1        | 39.3       | J             | ng/L |   | 98   | 50 - 150    |
| Perfluoroheptanoic acid (PFHpA)                                    | 40.1        | 40.0       | J             | ng/L |   | 100  | 50 - 150    |
| Perfluorohexanesulfonic acid (PFHxS)                               | 40.1        | 40.3       | J             | ng/L |   | 101  | 50 - 150    |
| Perfluorohexanoic acid (PFHxA)                                     | 40.1        | 39.4       | J             | ng/L |   | 98   | 50 - 150    |
| Perfluorononanoic acid (PFNA)                                      | 40.1        | 38.8       | J             | ng/L |   | 97   | 50 - 150    |
| Perfluorooctanesulfonic acid (PFOS)                                | 40.1        | 39.6       | J             | ng/L |   | 99   | 50 - 150    |
| Perfluorooctanoic acid (PFOA)                                      | 40.1        | 38.2       | J             | ng/L |   | 95   | 50 - 150    |
| Perfluoroundecanoic acid (PFUnA)                                   | 40.1        | 39.1       | J             | ng/L |   | 98   | 50 - 150    |
| Perfluorobutanoic acid (PFBA)                                      | 40.1        | 40.1       | J             | ng/L |   | 100  | 50 - 150    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-156553/23-A

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                             | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 40.1        | 41.1       | J             | ng/L |   | 102  | 50 - 150    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 40.1        | 39.3       | J             | ng/L |   | 98   | 50 - 150    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 40.1        | 38.9       | J             | ng/L |   | 97   | 50 - 150    |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)          | 40.1        | 32.6       | J             | ng/L |   | 81   | 50 - 150    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)   | 40.1        | 37.9       | J             | ng/L |   | 94   | 50 - 150    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | 40.1        | 40.2       | J             | ng/L |   | 100  | 50 - 150    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | 40.1        | 38.7       | J             | ng/L |   | 97   | 50 - 150    |
| Perfluoropentanoic acid (PFPeA)                     | 40.1        | 37.1       | J             | ng/L |   | 93   | 50 - 150    |
| Perfluoroheptanesulfonic acid (PFHpS)               | 40.1        | 40.9       | J             | ng/L |   | 102  | 50 - 150    |
| Perfluoropentanesulfonic acid (PFPeS)               | 40.1        | 41.6       | J             | ng/L |   | 104  | 50 - 150    |

| Isotope Dilution | MRL %Recovery | MRL Qualifier | MRL Limits |
|------------------|---------------|---------------|------------|
| 13C3 HFPO-DA     | 97            |               | 50 - 200   |
| 13C6 PFDA        | 101           |               | 50 - 200   |
| 13C5 PFHxA       | 105           |               | 50 - 200   |
| 13C4 PFHpA       | 105           |               | 50 - 200   |
| 13C8 PFOA        | 101           |               | 50 - 200   |
| 13C9 PFNA        | 102           |               | 50 - 200   |
| 13C7 PFUnA       | 101           |               | 50 - 200   |
| 13C2 PFDoA       | 96            |               | 50 - 200   |
| 13C4 PFBA        | 108           |               | 50 - 200   |
| 13C5 PFPeA       | 109           |               | 50 - 200   |
| 13C3 PFBS        | 100           |               | 50 - 200   |
| 13C3 PFHxS       | 101           |               | 50 - 200   |
| 13C8 PFOS        | 105           |               | 50 - 200   |
| 13C2-4:2-FTS     | 100           |               | 50 - 200   |
| 13C2-6:2-FTS     | 97            |               | 50 - 200   |
| 13C2-8:2-FTS     | 89            |               | 50 - 200   |

Lab Sample ID: 380-153399-E-1-A MS

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156553

| 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          |                  | 3.01        | 3.17      |              | ng/L |   | 105  | 70 - 130    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)    | <2.0          |                  | 3.01        | 2.64      |              | ng/L |   | 88   | 70 - 130    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                       | <2.0          |                  | 3.01        | 2.85      |              | ng/L |   | 95   | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153399-E-1-A MS

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Hexafluoropropylene Oxide                           | <2.0          |                  | 3.01        | 2.82      |              | ng/L |   | 94   | 70 - 130    |
| Dimer Acid (HFPO-DA/GenX)                           |               |                  |             |           |              |      |   |      |             |
| Perfluorobutanesulfonic acid (PFBS)                 | <2.0          |                  | 3.01        | 3.21      |              | ng/L |   | 107  | 70 - 130    |
| Perfluorodecanoic acid (PFDA)                       | <2.0          |                  | 3.01        | 2.96      |              | ng/L |   | 98   | 70 - 130    |
| Perfluorododecanoic acid (PFDoA)                    | <2.0          |                  | 3.01        | 2.86      |              | ng/L |   | 95   | 70 - 130    |
| Perfluoroheptanoic acid (PFHpA)                     | <2.0          |                  | 3.01        | 3.03      |              | ng/L |   | 101  | 70 - 130    |
| Perfluorohexanesulfonic acid (PFHxS)                | <2.0          |                  | 3.01        | 3.14      |              | ng/L |   | 104  | 70 - 130    |
| Perfluorohexanoic acid (PFHxA)                      | <2.0          |                  | 3.01        | 2.91      |              | ng/L |   | 97   | 70 - 130    |
| Perfluorononanoic acid (PFNA)                       | <2.0          |                  | 3.01        | 3.07      |              | ng/L |   | 102  | 70 - 130    |
| Perfluorooctanesulfonic acid (PFOS)                 | <2.0          |                  | 3.01        | 3.36      |              | ng/L |   | 112  | 70 - 130    |
| Perfluorooctanoic acid (PFOA)                       | <2.0          |                  | 3.01        | 3.09      |              | ng/L |   | 103  | 70 - 130    |
| Perfluoroundecanoic acid (PFUnA)                    | <2.0          |                  | 3.01        | 3.08      |              | ng/L |   | 102  | 70 - 130    |
| Perfluorobutanoic acid (PFBA)                       | <2.0          |                  | 3.01        | 3.11      |              | ng/L |   | 103  | 70 - 130    |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0          |                  | 3.01        | 3.25      |              | ng/L |   | 108  | 70 - 130    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0          |                  | 3.01        | 3.07      |              | ng/L |   | 102  | 70 - 130    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0          |                  | 3.01        | 3.19      |              | ng/L |   | 106  | 70 - 130    |
| Nonafluoro-3,6-dioxahexanoic acid (NFDHA)           | <2.0          |                  | 3.01        | 2.53      |              | ng/L |   | 84   | 70 - 130    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | <2.0          |                  | 3.01        | 2.73      |              | ng/L |   | 91   | 70 - 130    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | <2.0          |                  | 3.01        | 3.06      |              | ng/L |   | 101  | 70 - 130    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | <2.0          |                  | 3.01        | 2.94      |              | ng/L |   | 98   | 70 - 130    |
| Perfluoropentanoic acid (PFPeA)                     | <2.0          |                  | 3.01        | 3.06      |              | ng/L |   | 102  | 70 - 130    |
| Perfluoroheptanesulfonic acid (PFHpS)               | <2.0          |                  | 3.01        | 3.08      |              | ng/L |   | 102  | 70 - 130    |
| Perfluoropentanesulfonic acid (PFPeS)               | <2.0          |                  | 3.01        | 3.04      |              | ng/L |   | 101  | 70 - 130    |

| Isotope Dilution | MS %Recovery | MS Qualifier | MS Limits |
|------------------|--------------|--------------|-----------|
| 13C3 HFPO-DA     | 80           |              | 50 - 200  |
| 13C6 PFDA        | 89           |              | 50 - 200  |
| 13C5 PFHxA       | 88           |              | 50 - 200  |
| 13C4 PFHpA       | 90           |              | 50 - 200  |
| 13C8 PFOA        | 89           |              | 50 - 200  |
| 13C9 PFNA        | 88           |              | 50 - 200  |
| 13C7 PFUnA       | 91           |              | 50 - 200  |
| 13C2 PFDoA       | 92           |              | 50 - 200  |
| 13C4 PFBA        | 93           |              | 50 - 200  |
| 13C5 PFPeA       | 93           |              | 50 - 200  |
| 13C3 PFBS        | 99           |              | 50 - 200  |
| 13C3 PFHxS       | 101          |              | 50 - 200  |
| 13C8 PFOS        | 104          |              | 50 - 200  |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153399-E-1-A MS

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156553

| Isotope Dilution | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|------------------|-----------------|-----------------|----------|
| 13C2-4:2-FTS     | 102             |                 | 50 - 200 |
| 13C2-6:2-FTS     | 92              |                 | 50 - 200 |
| 13C2-8:2-FTS     | 87              |                 | 50 - 200 |

Lab Sample ID: 380-153399-F-1-A MSD

Matrix: Water

Analysis Batch: 156645

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 156553

| Analyte                                                           | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|-------------------------------------------------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0             |                     | 3.01           | 3.28          |                  | ng/L |   | 109  | 70 - 130       | 3   | 30           |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)   | <2.0             |                     | 3.01           | 2.69          |                  | ng/L |   | 90   | 70 - 130       | 2   | 30           |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                       | <2.0             |                     | 3.01           | 2.93          |                  | ng/L |   | 97   | 70 - 130       | 2   | 30           |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)               | <2.0             |                     | 3.01           | 2.65          |                  | ng/L |   | 88   | 70 - 130       | 7   | 30           |
| Perfluorobutanesulfonic acid (PFBS)                               | <2.0             |                     | 3.01           | 3.31          |                  | ng/L |   | 110  | 70 - 130       | 3   | 30           |
| Perfluorodecanoic acid (PFDA)                                     | <2.0             |                     | 3.01           | 3.20          |                  | ng/L |   | 106  | 70 - 130       | 8   | 30           |
| Perfluorododecanoic acid (PFDaA)                                  | <2.0             |                     | 3.01           | 3.02          |                  | ng/L |   | 101  | 70 - 130       | 5   | 30           |
| Perfluoroheptanoic acid (PFHpA)                                   | <2.0             |                     | 3.01           | 3.10          |                  | ng/L |   | 103  | 70 - 130       | 2   | 30           |
| Perfluorohexanesulfonic acid (PFHxS)                              | <2.0             |                     | 3.01           | 3.15          |                  | ng/L |   | 105  | 70 - 130       | 0   | 30           |
| Perfluorohexanoic acid (PFHxA)                                    | <2.0             |                     | 3.01           | 2.96          |                  | ng/L |   | 99   | 70 - 130       | 2   | 30           |
| Perfluorononanoic acid (PFNA)                                     | <2.0             |                     | 3.01           | 3.15          |                  | ng/L |   | 105  | 70 - 130       | 3   | 30           |
| Perfluorooctanesulfonic acid (PFOS)                               | <2.0             |                     | 3.01           | 3.41          |                  | ng/L |   | 114  | 70 - 130       | 2   | 30           |
| Perfluorooctanoic acid (PFOA)                                     | <2.0             |                     | 3.01           | 3.10          |                  | ng/L |   | 103  | 70 - 130       | 0   | 30           |
| Perfluoroundecanoic acid (PFUnA)                                  | <2.0             |                     | 3.01           | 3.30          |                  | ng/L |   | 110  | 70 - 130       | 7   | 30           |
| Perfluorobutanoic acid (PFBA)                                     | <2.0             |                     | 3.01           | 3.46          |                  | ng/L |   | 115  | 70 - 130       | 10  | 30           |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)               | <2.0             |                     | 3.01           | 3.41          |                  | ng/L |   | 113  | 70 - 130       | 5   | 30           |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)               | <2.0             |                     | 3.01           | 3.47          |                  | ng/L |   | 116  | 70 - 130       | 12  | 30           |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)               | <2.0             |                     | 3.01           | 2.99          |                  | ng/L |   | 99   | 70 - 130       | 6   | 30           |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                        | <2.0             |                     | 3.01           | 2.42          |                  | ng/L |   | 80   | 70 - 130       | 5   | 30           |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)                  | <2.0             |                     | 3.01           | 2.75          |                  | ng/L |   | 91   | 70 - 130       | 1   | 30           |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                         | <2.0             |                     | 3.01           | 2.99          |                  | ng/L |   | 100  | 70 - 130       | 2   | 30           |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                          | <2.0             |                     | 3.01           | 2.85          |                  | ng/L |   | 95   | 70 - 130       | 3   | 30           |
| Perfluoropentanoic acid (PFPeA)                                   | <2.0             |                     | 3.01           | 3.17          |                  | ng/L |   | 106  | 70 - 130       | 4   | 30           |
| Perfluoroheptanesulfonic acid (PFHpS)                             | <2.0             |                     | 3.01           | 3.16          |                  | ng/L |   | 105  | 70 - 130       | 3   | 30           |
| Perfluoropentanesulfonic acid (PFPeS)                             | <2.0             |                     | 3.01           | 3.03          |                  | ng/L |   | 101  | 70 - 130       | 0   | 30           |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

| Isotope Dilution | MSD MSD   |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 13C3 HFPO-DA     | 87        |           | 50 - 200 |
| 13C6 PFDA        | 95        |           | 50 - 200 |
| 13C5 PFHxA       | 98        |           | 50 - 200 |
| 13C4 PFHpA       | 100       |           | 50 - 200 |
| 13C8 PFOA        | 95        |           | 50 - 200 |
| 13C9 PFNA        | 94        |           | 50 - 200 |
| 13C7 PFUnA       | 92        |           | 50 - 200 |
| 13C2 PFDoA       | 94        |           | 50 - 200 |
| 13C4 PFBA        | 97        |           | 50 - 200 |
| 13C5 PFPeA       | 96        |           | 50 - 200 |
| 13C3 PFBS        | 103       |           | 50 - 200 |
| 13C3 PFHxS       | 108       |           | 50 - 200 |
| 13C8 PFOS        | 105       |           | 50 - 200 |
| 13C2-4:2-FTS     | 102       |           | 50 - 200 |
| 13C2-6:2-FTS     | 97        |           | 50 - 200 |
| 13C2-8:2-FTS     | 90        |           | 50 - 200 |

Lab Sample ID: MBL 380-156681/22-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                                                | MBL MBL |           | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------------------------------------------|---------|-----------|-----|------|---|----------------|----------------|---------|
|                                                                        | Result  | Qualifier |     |      |   |                |                |         |
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid (11Cl-PF3OUdS) | 0.318   | J         | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonan<br>e-1-sulfonic acid(9Cl-PF3ONS)     | <0.30   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid<br>(ADONA)                         | <0.60   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Hexafluoropropylene Oxide Dimer<br>Acid (HFPO-DA/GenX)                 | <1.0    |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                                    | <0.37   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorodecanoic acid (PFDA)                                          | <0.31   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorododecanoic acid (PFDoA)                                       | <0.54   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                        | <0.39   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                                   | <0.32   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorohexanoic acid (PFHxA)                                         | <0.46   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorononanoic acid (PFNA)                                          | <0.40   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                                    | <0.43   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorooctanoic acid (PFOA)                                          | <0.38   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoroundecanoic acid (PFUnA)                                       | <0.42   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluorobutanoic acid (PFBA)                                          | <0.69   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 1H,1H,2H,2H-Perfluorodecane<br>sulfonic acid (8:2 FTS)                 | <0.38   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 1H,1H,2H,2H-Perfluorohexane<br>sulfonic acid (4:2 FTS)                 | <0.37   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic<br>acid (6:2 FTS)                 | <0.48   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid<br>(NFDHA)                          | <0.47   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEESA)                   | <0.25   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoro-3-methoxypropanoic acid<br>(PFMPA)                           | <0.46   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoro-4-methoxybutanoic acid<br>(PFMBA)                            | <0.15   |           | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-156681/22-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                               | MBL Result | MBL Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------|------------|---------------|-----|------|---|----------------|----------------|---------|
| Perfluoropentanoic acid (PFPeA)       | <0.38      |               | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.36      |               | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| Perfluoropentanesulfonic acid (PFPeS) | <0.39      |               | 2.0 | ng/L |   | 06/08/25 15:27 | 06/09/25 19:38 | 1       |

| Isotope Dilution | MBL %Recovery | MBL Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|---------------|---------------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA     | 100           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C6 PFDA        | 106           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C5 PFHxA       | 105           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C4 PFHpA       | 103           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C8 PFOA        | 103           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C9 PFNA        | 105           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C7 PFUnA       | 101           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C2 PFDoA       | 102           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C4 PFBA        | 108           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C5 PFPeA       | 109           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C3 PFBS        | 105           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C3 PFHxS       | 106           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C8 PFOS        | 104           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C2-4:2-FTS     | 120           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C2-6:2-FTS     | 120           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |
| 13C2-8:2-FTS     | 117           |               | 50 - 200 | 06/08/25 15:27 | 06/09/25 19:38 | 1       |

Lab Sample ID: LCS 380-156681/24-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                                           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 120         | 115        |               | ng/L |   | 95   | 70 - 130    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)   | 120         | 116        |               | ng/L |   | 97   | 70 - 130    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                       | 120         | 113        |               | ng/L |   | 94   | 70 - 130    |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)               | 120         | 111        |               | ng/L |   | 93   | 70 - 130    |
| Perfluorobutanesulfonic acid (PFBS)                               | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| Perfluorodecanoic acid (PFDA)                                     | 120         | 113        |               | ng/L |   | 94   | 70 - 130    |
| Perfluorododecanoic acid (PFDoA)                                  | 120         | 114        |               | ng/L |   | 95   | 70 - 130    |
| Perfluoroheptanoic acid (PFHpA)                                   | 120         | 116        |               | ng/L |   | 96   | 70 - 130    |
| Perfluorohexanesulfonic acid (PFHxS)                              | 120         | 115        |               | ng/L |   | 95   | 70 - 130    |
| Perfluorohexanoic acid (PFHxA)                                    | 120         | 118        |               | ng/L |   | 98   | 70 - 130    |
| Perfluorononanoic acid (PFNA)                                     | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| Perfluorooctanesulfonic acid (PFOS)                               | 120         | 116        |               | ng/L |   | 97   | 70 - 130    |
| Perfluorooctanoic acid (PFOA)                                     | 120         | 114        |               | ng/L |   | 95   | 70 - 130    |

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# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-156681/24-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Perfluoroundecanoic acid (PFUnA)                    | 120         | 119        |               | ng/L |   | 99   | 70 - 130    |
| Perfluorobutanoic acid (PFBA)                       | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 120         | 115        |               | ng/L |   | 95   | 70 - 130    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 120         | 112        |               | ng/L |   | 93   | 70 - 130    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 120         | 111        |               | ng/L |   | 92   | 70 - 130    |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)          | 120         | 118        |               | ng/L |   | 98   | 70 - 130    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)   | 120         | 118        |               | ng/L |   | 98   | 70 - 130    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | 120         | 114        |               | ng/L |   | 95   | 70 - 130    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| Perfluoropentanoic acid (PFPeA)                     | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| Perfluoroheptanesulfonic acid (PFHpS)               | 120         | 117        |               | ng/L |   | 97   | 70 - 130    |
| Perfluoropentanesulfonic acid (PFPeS)               | 120         | 120        |               | ng/L |   | 99   | 70 - 130    |

| Isotope Dilution | LCS       |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 13C3 HFPO-DA     | 102       |           | 50 - 200 |
| 13C6 PFDA        | 105       |           | 50 - 200 |
| 13C5 PFHxA       | 100       |           | 50 - 200 |
| 13C4 PFHpA       | 102       |           | 50 - 200 |
| 13C8 PFOA        | 102       |           | 50 - 200 |
| 13C9 PFNA        | 105       |           | 50 - 200 |
| 13C7 PFUnA       | 104       |           | 50 - 200 |
| 13C2 PFDoA       | 103       |           | 50 - 200 |
| 13C4 PFBA        | 104       |           | 50 - 200 |
| 13C5 PFPeA       | 107       |           | 50 - 200 |
| 13C3 PFBS        | 100       |           | 50 - 200 |
| 13C3 PFHxS       | 103       |           | 50 - 200 |
| 13C8 PFOS        | 102       |           | 50 - 200 |
| 13C2-4:2-FTS     | 112       |           | 50 - 200 |
| 13C2-6:2-FTS     | 112       |           | 50 - 200 |
| 13C2-8:2-FTS     | 112       |           | 50 - 200 |

Lab Sample ID: MRL 380-156681/23-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                                            | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.00        | 2.23       | J             | ng/L |   | 111  | 50 - 150    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)    | 2.00        | 2.15       | J             | ng/L |   | 107  | 50 - 150    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-156681/23-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                             | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)         | 2.00        | 2.18       | J             | ng/L |   | 109  | 50 - 150    |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 2.00        | 2.16       | J             | ng/L |   | 108  | 50 - 150    |
| Perfluorobutanesulfonic acid (PFBS)                 | 2.00        | 2.13       | J             | ng/L |   | 106  | 50 - 150    |
| Perfluorodecanoic acid (PFDA)                       | 2.00        | 2.09       | J             | ng/L |   | 104  | 50 - 150    |
| Perfluorododecanoic acid (PFDoA)                    | 2.00        | 2.23       | J             | ng/L |   | 111  | 50 - 150    |
| Perfluoroheptanoic acid (PFHpA)                     | 2.00        | 2.26       | J             | ng/L |   | 113  | 50 - 150    |
| Perfluorohexanesulfonic acid (PFHxS)                | 2.00        | 2.19       | J             | ng/L |   | 109  | 50 - 150    |
| Perfluorohexanoic acid (PFHxA)                      | 2.00        | 2.34       | J             | ng/L |   | 117  | 50 - 150    |
| Perfluorononanoic acid (PFNA)                       | 2.00        | 2.03       | J             | ng/L |   | 101  | 50 - 150    |
| Perfluorooctanesulfonic acid (PFOS)                 | 2.00        | 2.24       | J             | ng/L |   | 112  | 50 - 150    |
| Perfluorooctanoic acid (PFOA)                       | 2.00        | 2.10       | J             | ng/L |   | 105  | 50 - 150    |
| Perfluoroundecanoic acid (PFUnA)                    | 2.00        | 2.24       | J             | ng/L |   | 112  | 50 - 150    |
| Perfluorobutanoic acid (PFBA)                       | 2.00        | 2.27       | J             | ng/L |   | 113  | 50 - 150    |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 2.00        | 2.28       | J             | ng/L |   | 114  | 50 - 150    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 2.00        | 2.23       | J             | ng/L |   | 111  | 50 - 150    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 2.00        | 2.25       | J             | ng/L |   | 112  | 50 - 150    |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)          | 2.00        | 2.34       | J             | ng/L |   | 117  | 50 - 150    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | 2.00        | 2.08       | J             | ng/L |   | 104  | 50 - 150    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | 2.00        | 2.08       | J             | ng/L |   | 104  | 50 - 150    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | 2.00        | 1.97       | J             | ng/L |   | 98   | 50 - 150    |
| Perfluoropentanoic acid (PFPeA)                     | 2.00        | 2.11       | J             | ng/L |   | 105  | 50 - 150    |
| Perfluoroheptanesulfonic acid (PFHpS)               | 2.00        | 2.08       | J             | ng/L |   | 104  | 50 - 150    |
| Perfluoropentanesulfonic acid (PFPeS)               | 2.00        | 2.18       | J             | ng/L |   | 109  | 50 - 150    |

| Isotope Dilution | MRL %Recovery | MRL Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 13C3 HFPO-DA     | 94            |               | 50 - 200 |
| 13C6 PFDA        | 103           |               | 50 - 200 |
| 13C5 PFHxA       | 97            |               | 50 - 200 |
| 13C4 PFHpA       | 99            |               | 50 - 200 |
| 13C8 PFOA        | 104           |               | 50 - 200 |
| 13C9 PFNA        | 103           |               | 50 - 200 |
| 13C7 PFUnA       | 96            |               | 50 - 200 |
| 13C2 PFDoA       | 97            |               | 50 - 200 |
| 13C4 PFBA        | 105           |               | 50 - 200 |
| 13C5 PFPeA       | 110           |               | 50 - 200 |
| 13C3 PFBS        | 104           |               | 50 - 200 |
| 13C3 PFHxS       | 103           |               | 50 - 200 |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-156681/23-A

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156681

| Isotope Dilution | MRL<br>%Recovery | MRL<br>Qualifier | Limits   |
|------------------|------------------|------------------|----------|
| 13C8 PFOS        | 103              |                  | 50 - 200 |
| 13C2-4:2-FTS     | 121              |                  | 50 - 200 |
| 13C2-6:2-FTS     | 117              |                  | 50 - 200 |
| 13C2-8:2-FTS     | 111              |                  | 50 - 200 |

Lab Sample ID: 380-153424-E-2-A MSD

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                                            | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------------------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS) | <2.0             |                     | 121            | 113           |                  | ng/L |   | 93   | 70 - 130       | 1   | 30           |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)    | <2.0             |                     | 121            | 114           |                  | ng/L |   | 94   | 70 - 130       | 4   | 30           |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0             |                     | 121            | 105           |                  | ng/L |   | 87   | 70 - 130       | 5   | 30           |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0             |                     | 121            | 113           |                  | ng/L |   | 93   | 70 - 130       | 2   | 30           |
| Perfluorobutanesulfonic acid (PFBS)                                | 4.7              |                     | 121            | 118           |                  | ng/L |   | 94   | 70 - 130       | 1   | 30           |
| Perfluorodecanoic acid (PFDA)                                      | <2.0             |                     | 121            | 113           |                  | ng/L |   | 94   | 70 - 130       | 1   | 30           |
| Perfluorododecanoic acid (PFDaA)                                   | <2.0             |                     | 121            | 113           |                  | ng/L |   | 93   | 70 - 130       | 1   | 30           |
| Perfluoroheptanoic acid (PFHpA)                                    | 2.3              |                     | 121            | 114           |                  | ng/L |   | 93   | 70 - 130       | 2   | 30           |
| Perfluorohexanesulfonic acid (PFHxS)                               | 4.5              |                     | 121            | 115           |                  | ng/L |   | 91   | 70 - 130       | 6   | 30           |
| Perfluorohexanoic acid (PFHxA)                                     | 9.5              |                     | 121            | 125           |                  | ng/L |   | 96   | 70 - 130       | 1   | 30           |
| Perfluorononanoic acid (PFNA)                                      | <2.0             |                     | 121            | 114           |                  | ng/L |   | 94   | 70 - 130       | 2   | 30           |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0             |                     | 121            | 116           |                  | ng/L |   | 96   | 70 - 130       | 3   | 30           |
| Perfluorooctanoic acid (PFOA)                                      | 4.2              |                     | 121            | 117           |                  | ng/L |   | 93   | 70 - 130       | 1   | 30           |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0             |                     | 121            | 120           |                  | ng/L |   | 100  | 70 - 130       | 5   | 30           |
| Perfluorobutanoic acid (PFBA)                                      | 63               |                     | 121            | 172           |                  | ng/L |   | 91   | 70 - 130       | 1   | 30           |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)                | <2.0             |                     | 121            | 112           |                  | ng/L |   | 92   | 70 - 130       | 3   | 30           |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)                | <2.0             |                     | 121            | 113           |                  | ng/L |   | 93   | 70 - 130       | 1   | 30           |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)                | <2.0             |                     | 121            | 110           |                  | ng/L |   | 91   | 70 - 130       | 2   | 30           |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)                         | <2.0             |                     | 121            | 112           |                  | ng/L |   | 93   | 70 - 130       | 1   | 30           |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)                   | <2.0             |                     | 121            | 112           |                  | ng/L |   | 93   | 70 - 130       | 5   | 30           |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                          | <2.0             |                     | 121            | 110           |                  | ng/L |   | 91   | 70 - 130       | 6   | 30           |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                           | <2.0             |                     | 121            | 108           |                  | ng/L |   | 89   | 70 - 130       | 1   | 30           |
| Perfluoropentanoic acid (PFPeA)                                    | 5.0              |                     | 121            | 115           |                  | ng/L |   | 91   | 70 - 130       | 0   | 30           |
| Perfluoroheptanesulfonic acid (PFHpS)                              | <2.0             |                     | 121            | 115           |                  | ng/L |   | 96   | 70 - 130       | 3   | 30           |

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# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153424-E-2-A MSD

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                               | Sample Result        | Sample Qualifier     | Spike Added   | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------------|----------------------|----------------------|---------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perfluoropentanesulfonic acid (PFPeS) | 2.1                  |                      | 121           | 114        |               | ng/L |   | 93   | 70 - 130    | 3   | 30        |
|                                       |                      |                      |               |            |               |      |   |      |             |     |           |
| <i>Isotope Dilution</i>               | <i>MSD %Recovery</i> | <i>MSD Qualifier</i> | <i>Limits</i> |            |               |      |   |      |             |     |           |
| 13C3 HFPO-DA                          | 95                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C6 PFDA                             | 97                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C5 PFHxA                            | 98                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C4 PFHpA                            | 94                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C8 PFOA                             | 89                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C9 PFNA                             | 95                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C7 PFUnA                            | 99                   |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C2 PFDoA                            | 101                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C4 PFBA                             | 103                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C5 PFPeA                            | 107                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C3 PFBS                             | 104                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C3 PFHxS                            | 108                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C8 PFOS                             | 103                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C2-4:2-FTS                          | 115                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C2-6:2-FTS                          | 114                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |
| 13C2-8:2-FTS                          | 116                  |                      | 50 - 200      |            |               |      |   |      |             |     |           |

Lab Sample ID: 380-153424-F-2-A MS

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                                            | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|-----|-----------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0          |                  | 121         | 113       |              | ng/L |   | 94   | 70 - 130    |     |           |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)    | <2.0          |                  | 121         | 119       |              | ng/L |   | 98   | 70 - 130    |     |           |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0          |                  | 121         | 111       |              | ng/L |   | 92   | 70 - 130    |     |           |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0          |                  | 121         | 116       |              | ng/L |   | 96   | 70 - 130    |     |           |
| Perfluorobutanesulfonic acid (PFBS)                                | 4.7           |                  | 121         | 116       |              | ng/L |   | 92   | 70 - 130    |     |           |
| Perfluorodecanoic acid (PFDA)                                      | <2.0          |                  | 121         | 112       |              | ng/L |   | 93   | 70 - 130    |     |           |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0          |                  | 121         | 112       |              | ng/L |   | 92   | 70 - 130    |     |           |
| Perfluoroheptanoic acid (PFHpA)                                    | 2.3           |                  | 121         | 116       |              | ng/L |   | 94   | 70 - 130    |     |           |
| Perfluorohexanesulfonic acid (PFHxS)                               | 4.5           |                  | 121         | 122       |              | ng/L |   | 97   | 70 - 130    |     |           |
| Perfluorohexanoic acid (PFHxA)                                     | 9.5           |                  | 121         | 126       |              | ng/L |   | 97   | 70 - 130    |     |           |
| Perfluorononanoic acid (PFNA)                                      | <2.0          |                  | 121         | 116       |              | ng/L |   | 96   | 70 - 130    |     |           |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0          |                  | 121         | 119       |              | ng/L |   | 98   | 70 - 130    |     |           |
| Perfluorooctanoic acid (PFOA)                                      | 4.2           |                  | 121         | 116       |              | ng/L |   | 93   | 70 - 130    |     |           |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0          |                  | 121         | 115       |              | ng/L |   | 95   | 70 - 130    |     |           |
| Perfluorobutanoic acid (PFBA)                                      | 63            |                  | 121         | 174       |              | ng/L |   | 92   | 70 - 130    |     |           |

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# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153424-F-2-A MS

Matrix: Water

Analysis Batch: 156919

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156681

| Analyte                                             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0          |                  | 121         | 115       |              | ng/L |   | 95   | 70 - 130    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0          |                  | 121         | 114       |              | ng/L |   | 95   | 70 - 130    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0          |                  | 121         | 111       |              | ng/L |   | 92   | 70 - 130    |
| Nonafluoro-3,6-dioxahexanoic acid (NFDHA)           | <2.0          |                  | 121         | 113       |              | ng/L |   | 94   | 70 - 130    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)    | <2.0          |                  | 121         | 118       |              | ng/L |   | 97   | 70 - 130    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)           | <2.0          |                  | 121         | 117       |              | ng/L |   | 97   | 70 - 130    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)            | <2.0          |                  | 121         | 106       |              | ng/L |   | 88   | 70 - 130    |
| Perfluoropentanoic acid (PFPeA)                     | 5.0           |                  | 121         | 115       |              | ng/L |   | 91   | 70 - 130    |
| Perfluoroheptanesulfonic acid (PFHpS)               | <2.0          |                  | 121         | 119       |              | ng/L |   | 98   | 70 - 130    |
| Perfluoropentanesulfonic acid (PFPeS)               | 2.1           |                  | 121         | 118       |              | ng/L |   | 96   | 70 - 130    |

| Isotope Dilution | MS %Recovery | MS Qualifier | Limits   |
|------------------|--------------|--------------|----------|
| 13C3 HFPO-DA     | 99           |              | 50 - 200 |
| 13C6 PFDA        | 102          |              | 50 - 200 |
| 13C5 PFHxA       | 101          |              | 50 - 200 |
| 13C4 PFHpA       | 98           |              | 50 - 200 |
| 13C8 PFOA        | 99           |              | 50 - 200 |
| 13C9 PFNA        | 100          |              | 50 - 200 |
| 13C7 PFUnA       | 105          |              | 50 - 200 |
| 13C2 PFDoA       | 102          |              | 50 - 200 |
| 13C4 PFBA        | 107          |              | 50 - 200 |
| 13C5 PFPeA       | 116          |              | 50 - 200 |
| 13C3 PFBS        | 104          |              | 50 - 200 |
| 13C3 PFHxS       | 105          |              | 50 - 200 |
| 13C8 PFOS        | 102          |              | 50 - 200 |
| 13C2-4:2-FTS     | 117          |              | 50 - 200 |
| 13C2-6:2-FTS     | 116          |              | 50 - 200 |
| 13C2-8:2-FTS     | 115          |              | 50 - 200 |

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

Lab Sample ID: MBL 380-156220/20-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                  | MBL Result | MBL Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|------------|---------------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)      | <1.0       |               | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | <0.43      |               | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | <0.42      |               | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <0.58      |               | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |

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# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-156220/20-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                           | MBL<br>Result | MBL<br>Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------------------------------------------|---------------|------------------|-----|------|---|----------------|----------------|---------|
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)           | <0.42         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorohexanoic acid (PFHxA)                                    | <0.46         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorododecanoic acid (PFDoA)                                  | <0.54         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorooctanoic acid (PFOA)                                     | <0.38         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorodecanoic acid (PFDA)                                     | <0.31         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                              | <0.32         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                               | <0.37         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluoroheptanoic acid (PFHpA)                                   | <0.39         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorononanoic acid (PFNA)                                     | <0.40         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorotetradecanoic acid (PFTA)                                | <0.54         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| Perfluorotridecanoic acid (PFTDA)                                 | <0.36         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)    | <0.30         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUs) | <0.30         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                       | <0.60         |                  | 2.0 | ng/L |   | 06/05/25 02:15 | 06/05/25 14:31 | 1       |

| Surrogate   | MBL<br>%Recovery | MBL<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|------------------|------------------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 107              |                  | 70 - 130 | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 13C2 PFHxA  | 116              |                  | 70 - 130 | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 13C2 PFDA   | 116              |                  | 70 - 130 | 06/05/25 02:15 | 06/05/25 14:31 | 1       |
| 13C3-GenX   | 115              |                  | 70 - 130 | 06/05/25 02:15 | 06/05/25 14:31 | 1       |

Lab Sample ID: LCS 380-156220/22-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|----------------------------------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)      | 50.3           | 48.8          |                  | ng/L |   | 97   | 70 - 130       |
| Perfluorooctanesulfonic acid (PFOS)                      | 50.3           | 51.6          |                  | ng/L |   | 103  | 70 - 130       |
| Perfluoroundecanoic acid (PFUnA)                         | 50.3           | 53.8          |                  | ng/L |   | 107  | 70 - 130       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 50.3           | 47.8          |                  | ng/L |   | 95   | 70 - 130       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 50.3           | 46.3          |                  | ng/L |   | 92   | 70 - 130       |
| Perfluorohexanoic acid (PFHxA)                           | 50.3           | 51.8          |                  | ng/L |   | 103  | 70 - 130       |
| Perfluorododecanoic acid (PFDoA)                         | 50.3           | 49.8          |                  | ng/L |   | 99   | 70 - 130       |
| Perfluorooctanoic acid (PFOA)                            | 50.3           | 50.3          |                  | ng/L |   | 100  | 70 - 130       |
| Perfluorodecanoic acid (PFDA)                            | 50.3           | 51.5          |                  | ng/L |   | 102  | 70 - 130       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 50.3           | 52.9          |                  | ng/L |   | 105  | 70 - 130       |
| Perfluorobutanesulfonic acid (PFBS)                      | 50.3           | 47.9          |                  | ng/L |   | 95   | 70 - 130       |
| Perfluoroheptanoic acid (PFHpA)                          | 50.3           | 49.0          |                  | ng/L |   | 97   | 70 - 130       |
| Perfluorononanoic acid (PFNA)                            | 50.3           | 50.7          |                  | ng/L |   | 101  | 70 - 130       |

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# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-156220/22-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                            | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Perfluorotetradecanoic acid (PFTA)                                 | 50.3        | 51.0       |               | ng/L |   | 101  | 70 - 130    |
| Perfluorotridecanoic acid (PFTrDA)                                 | 50.3        | 56.6       |               | ng/L |   | 113  | 70 - 130    |
| 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)       | 50.3        | 50.8       |               | ng/L |   | 101  | 70 - 130    |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 50.3        | 58.5       |               | ng/L |   | 116  | 70 - 130    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | 50.3        | 49.9       |               | ng/L |   | 99   | 70 - 130    |

| Surrogate   | LCS %Recovery | LCS Qualifier | Limits   |
|-------------|---------------|---------------|----------|
| d5-NEtFOSAA | 100           |               | 70 - 130 |
| 13C2 PFHxA  | 106           |               | 70 - 130 |
| 13C2 PFDA   | 113           |               | 70 - 130 |
| 13C3-GenX   | 106           |               | 70 - 130 |

Lab Sample ID: MRL 380-156220/21-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                      | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)          | 2.01        | 2.10       | J             | ng/L |   | 105  | 50 - 150    |
| Perfluorooctanesulfonic acid (PFOS)                          | 2.01        | 2.14       | J             | ng/L |   | 107  | 50 - 150    |
| Perfluoroundecanoic acid (PFUnA)                             | 2.01        | 2.22       | J             | ng/L |   | 111  | 50 - 150    |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)     | 2.01        | 1.97       | J             | ng/L |   | 98   | 50 - 150    |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)      | 2.01        | 1.95       | J             | ng/L |   | 97   | 50 - 150    |
| Perfluorohexanoic acid (PFHxA)                               | 2.01        | 2.23       | J             | ng/L |   | 111  | 50 - 150    |
| Perfluorododecanoic acid (PFDoA)                             | 2.01        | 2.16       | J             | ng/L |   | 107  | 50 - 150    |
| Perfluorooctanoic acid (PFOA)                                | 2.01        | 2.14       | J             | ng/L |   | 107  | 50 - 150    |
| Perfluorodecanoic acid (PFDA)                                | 2.01        | 2.18       | J             | ng/L |   | 108  | 50 - 150    |
| Perfluorohexanesulfonic acid (PFHxS)                         | 2.01        | 2.07       | J             | ng/L |   | 103  | 50 - 150    |
| Perfluorobutanesulfonic acid (PFBS)                          | 2.01        | 1.93       | J             | ng/L |   | 96   | 50 - 150    |
| Perfluoroheptanoic acid (PFHpA)                              | 2.01        | 2.07       | J             | ng/L |   | 103  | 50 - 150    |
| Perfluorononanoic acid (PFNA)                                | 2.01        | 2.05       | J             | ng/L |   | 102  | 50 - 150    |
| Perfluorotetradecanoic acid (PFTA)                           | 2.01        | 1.98       | J             | ng/L |   | 98   | 50 - 150    |
| Perfluorotridecanoic acid (PFTrDA)                           | 2.01        | 2.42       | J             | ng/L |   | 120  | 50 - 150    |
| 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS) | 2.01        | 2.19       | J             | ng/L |   | 109  | 50 - 150    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-156220/21-A

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                            | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.01        | 2.39       | J             | ng/L |   | 119  | 50 - 150    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | 2.01        | 2.10       | J             | ng/L |   | 105  | 50 - 150    |

| Surrogate   | MRL %Recovery | MRL Qualifier | Limits   |
|-------------|---------------|---------------|----------|
| d5-NEtFOSAA | 99            |               | 70 - 130 |
| 13C2 PFHxA  | 110           |               | 70 - 130 |
| 13C2 PFDA   | 111           |               | 70 - 130 |
| 13C3-GenX   | 109           |               | 70 - 130 |

Lab Sample ID: 380-153644-E-1-A MS

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                            | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)                | <2.0          |                  | 50.2        | 50.7      |              | ng/L |   | 101  | 70 - 130    |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0          |                  | 50.2        | 53.4      |              | ng/L |   | 103  | 70 - 130    |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0          |                  | 50.2        | 51.3      |              | ng/L |   | 102  | 70 - 130    |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0          |                  | 50.2        | 50.1      |              | ng/L |   | 100  | 70 - 130    |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0          |                  | 50.2        | 48.4      |              | ng/L |   | 96   | 70 - 130    |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0          |                  | 50.2        | 55.6      |              | ng/L |   | 107  | 70 - 130    |
| Perfluorododecanoic acid (PFDaA)                                   | <2.0          |                  | 50.2        | 50.8      |              | ng/L |   | 101  | 70 - 130    |
| Perfluorooctanoic acid (PFOA)                                      | <2.0          |                  | 50.2        | 51.7      |              | ng/L |   | 100  | 70 - 130    |
| Perfluorodecanoic acid (PFDA)                                      | <2.0          |                  | 50.2        | 52.3      |              | ng/L |   | 104  | 70 - 130    |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0          |                  | 50.2        | 54.4      |              | ng/L |   | 106  | 70 - 130    |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0          |                  | 50.2        | 49.0      |              | ng/L |   | 95   | 70 - 130    |
| Perfluoroheptanoic acid (PFHpA)                                    | 2.0           |                  | 50.2        | 52.1      |              | ng/L |   | 102  | 70 - 130    |
| Perfluorononanoic acid (PFNA)                                      | <2.0          |                  | 50.2        | 49.7      |              | ng/L |   | 99   | 70 - 130    |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0          |                  | 50.2        | 50.2      |              | ng/L |   | 100  | 70 - 130    |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0          |                  | 50.2        | 54.7      |              | ng/L |   | 109  | 70 - 130    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0          |                  | 50.2        | 49.8      |              | ng/L |   | 99   | 70 - 130    |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0          |                  | 50.2        | 58.0      |              | ng/L |   | 116  | 70 - 130    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0          |                  | 50.2        | 51.8      |              | ng/L |   | 103  | 70 - 130    |

# QC Sample Results

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-153644-E-1-A MS

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156220

| Surrogate   | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|-------------|-----------------|-----------------|----------|
| d5-NEtFOSAA | 102             |                 | 70 - 130 |
| 13C2 PFHxA  | 111             |                 | 70 - 130 |
| 13C2 PFDA   | 118             |                 | 70 - 130 |
| 13C3-GenX   | 110             |                 | 70 - 130 |

Lab Sample ID: 380-153644-F-1-A MSD

Matrix: Water

Analysis Batch: 156304

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 156220

| Analyte                                                            | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|--------------------------------------------------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| Hexafluoropropylene Oxide                                          | <2.0             |                     | 50.1           | 49.8          |                  | ng/L |   | 99   | 70 - 130       | 2   | 30           |
| Dimer Acid (HFPO-DA/GenX)                                          |                  |                     |                |               |                  |      |   |      |                |     |              |
| Perfluorooctanesulfonic acid (PFOS)                                | <2.0             |                     | 50.1           | 51.1          |                  | ng/L |   | 98   | 70 - 130       | 4   | 30           |
| Perfluoroundecanoic acid (PFUnA)                                   | <2.0             |                     | 50.1           | 52.6          |                  | ng/L |   | 105  | 70 - 130       | 3   | 30           |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)           | <2.0             |                     | 50.1           | 47.3          |                  | ng/L |   | 94   | 70 - 130       | 6   | 30           |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)            | <2.0             |                     | 50.1           | 46.6          |                  | ng/L |   | 93   | 70 - 130       | 4   | 30           |
| Perfluorohexanoic acid (PFHxA)                                     | <2.0             |                     | 50.1           | 52.0          |                  | ng/L |   | 100  | 70 - 130       | 7   | 30           |
| Perfluorododecanoic acid (PFDoA)                                   | <2.0             |                     | 50.1           | 48.6          |                  | ng/L |   | 97   | 70 - 130       | 4   | 30           |
| Perfluorooctanoic acid (PFOA)                                      | <2.0             |                     | 50.1           | 50.2          |                  | ng/L |   | 97   | 70 - 130       | 3   | 30           |
| Perfluorodecanoic acid (PFDA)                                      | <2.0             |                     | 50.1           | 50.3          |                  | ng/L |   | 100  | 70 - 130       | 4   | 30           |
| Perfluorohexanesulfonic acid (PFHxS)                               | <2.0             |                     | 50.1           | 52.8          |                  | ng/L |   | 103  | 70 - 130       | 3   | 30           |
| Perfluorobutanesulfonic acid (PFBS)                                | <2.0             |                     | 50.1           | 47.2          |                  | ng/L |   | 91   | 70 - 130       | 4   | 30           |
| Perfluoroheptanoic acid (PFHpA)                                    | <2.0             |                     | 50.1           | 50.3          |                  | ng/L |   | 99   | 70 - 130       | 3   | 30           |
| Perfluorononanoic acid (PFNA)                                      | <2.0             |                     | 50.1           | 50.2          |                  | ng/L |   | 100  | 70 - 130       | 1   | 30           |
| Perfluorotetradecanoic acid (PFTA)                                 | <2.0             |                     | 50.1           | 50.5          |                  | ng/L |   | 101  | 70 - 130       | 0   | 30           |
| Perfluorotridecanoic acid (PFTrDA)                                 | <2.0             |                     | 50.1           | 54.3          |                  | ng/L |   | 108  | 70 - 130       | 1   | 30           |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)     | <2.0             |                     | 50.1           | 49.5          |                  | ng/L |   | 99   | 70 - 130       | 1   | 30           |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0             |                     | 50.1           | 55.7          |                  | ng/L |   | 111  | 70 - 130       | 4   | 30           |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)                        | <2.0             |                     | 50.1           | 51.0          |                  | ng/L |   | 102  | 70 - 130       | 2   | 30           |

| Surrogate   | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|-------------|------------------|------------------|----------|
| d5-NEtFOSAA | 97               |                  | 70 - 130 |
| 13C2 PFHxA  | 106              |                  | 70 - 130 |
| 13C2 PFDA   | 109              |                  | 70 - 130 |
| 13C3-GenX   | 106              |                  | 70 - 130 |

# QC Association Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

## LCMS

### Prep Batch: 156220

| Lab Sample ID        | Client Sample ID                           | Prep Type | Matrix         | Method   | Prep Batch |
|----------------------|--------------------------------------------|-----------|----------------|----------|------------|
| 380-153640-1         | MOANALUA WELLS P3 (331-223-TP202)          | Total/NA  | Drinking Water | 537.1 DW |            |
| 380-153640-2         | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP  | Total/NA  | Drinking Water | 537.1 DW |            |
| 380-153640-3         | AIEA GULCH WELLS PUMP 1 (331-201-TP071)    | Total/NA  | Drinking Water | 537.1 DW |            |
| 380-153640-4         | AIEA GULCH WELLS PUMP 2 (331-202-TP072)    | Total/NA  | Drinking Water | 537.1 DW |            |
| 380-153640-5         | FB: MOANALUA WELLS (331-223-TP202)         | Total/NA  | Water          | 537.1 DW |            |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF | Total/NA  | Water          | 537.1 DW |            |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC   | Total/NA  | Water          | 537.1 DW |            |
| 380-153640-8         | FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC   | Total/NA  | Water          | 537.1 DW |            |
| MBL 380-156220/20-A  | Method Blank                               | Total/NA  | Water          | 537.1 DW |            |
| LCS 380-156220/22-A  | Lab Control Sample                         | Total/NA  | Water          | 537.1 DW |            |
| MRL 380-156220/21-A  | Lab Control Sample                         | Total/NA  | Water          | 537.1 DW |            |
| 380-153644-E-1-A MS  | Matrix Spike                               | Total/NA  | Water          | 537.1 DW |            |
| 380-153644-F-1-A MSD | Matrix Spike Duplicate                     | Total/NA  | Water          | 537.1 DW |            |

### Analysis Batch: 156304

| Lab Sample ID        | Client Sample ID                           | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|--------------------------------------------|-----------|----------------|--------|------------|
| 380-153640-1         | MOANALUA WELLS P3 (331-223-TP202)          | Total/NA  | Drinking Water | 537.1  | 156220     |
| 380-153640-2         | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP  | Total/NA  | Drinking Water | 537.1  | 156220     |
| 380-153640-3         | AIEA GULCH WELLS PUMP 1 (331-201-TP071)    | Total/NA  | Drinking Water | 537.1  | 156220     |
| 380-153640-4         | AIEA GULCH WELLS PUMP 2 (331-202-TP072)    | Total/NA  | Drinking Water | 537.1  | 156220     |
| 380-153640-5         | FB: MOANALUA WELLS (331-223-TP202)         | Total/NA  | Water          | 537.1  | 156220     |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF | Total/NA  | Water          | 537.1  | 156220     |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC   | Total/NA  | Water          | 537.1  | 156220     |
| 380-153640-8         | FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC   | Total/NA  | Water          | 537.1  | 156220     |
| MBL 380-156220/20-A  | Method Blank                               | Total/NA  | Water          | 537.1  | 156220     |
| LCS 380-156220/22-A  | Lab Control Sample                         | Total/NA  | Water          | 537.1  | 156220     |
| MRL 380-156220/21-A  | Lab Control Sample                         | Total/NA  | Water          | 537.1  | 156220     |
| 380-153644-E-1-A MS  | Matrix Spike                               | Total/NA  | Water          | 537.1  | 156220     |
| 380-153644-F-1-A MSD | Matrix Spike Duplicate                     | Total/NA  | Water          | 537.1  | 156220     |

### Prep Batch: 156553

| Lab Sample ID        | Client Sample ID                           | Prep Type | Matrix | Method | Prep Batch |
|----------------------|--------------------------------------------|-----------|--------|--------|------------|
| 380-153640-5         | FB: MOANALUA WELLS (331-223-TP202)         | Total/NA  | Water  | 533    |            |
| 380-153640-6         | FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF | Total/NA  | Water  | 533    |            |
| 380-153640-7         | FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC   | Total/NA  | Water  | 533    |            |
| 380-153640-8         | FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC   | Total/NA  | Water  | 533    |            |
| MBL 380-156553/22-A  | Method Blank                               | Total/NA  | Water  | 533    |            |
| LCS 380-156553/24-A  | Lab Control Sample                         | Total/NA  | Water  | 533    |            |
| MRL 380-156553/23-A  | Lab Control Sample                         | Total/NA  | Water  | 533    |            |
| 380-153399-E-1-A MS  | Matrix Spike                               | Total/NA  | Water  | 533    |            |
| 380-153399-F-1-A MSD | Matrix Spike Duplicate                     | Total/NA  | Water  | 533    |            |

### Analysis Batch: 156645

| Lab Sample ID       | Client Sample ID                           | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------------------------------|-----------|--------|--------|------------|
| 380-153640-5        | FB: MOANALUA WELLS (331-223-TP202)         | Total/NA  | Water  | 533    | 156553     |
| 380-153640-6        | FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF | Total/NA  | Water  | 533    | 156553     |
| 380-153640-7        | FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC   | Total/NA  | Water  | 533    | 156553     |
| 380-153640-8        | FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC   | Total/NA  | Water  | 533    | 156553     |
| MBL 380-156553/22-A | Method Blank                               | Total/NA  | Water  | 533    | 156553     |
| LCS 380-156553/24-A | Lab Control Sample                         | Total/NA  | Water  | 533    | 156553     |
| MRL 380-156553/23-A | Lab Control Sample                         | Total/NA  | Water  | 533    | 156553     |

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# QC Association Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

## LCMS (Continued)

### Analysis Batch: 156645 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-153399-E-1-A MS  | Matrix Spike           | Total/NA  | Water  | 533    | 156553     |
| 380-153399-F-1-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | 533    | 156553     |

### Prep Batch: 156681

| Lab Sample ID        | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-153640-1         | MOANALUA WELLS P3 (331-223-TP202)         | Total/NA  | Drinking Water | 533    |            |
| 380-153640-2         | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP | Total/NA  | Drinking Water | 533    |            |
| 380-153640-3         | AIEA GULCH WELLS PUMP 1 (331-201-TP071)   | Total/NA  | Drinking Water | 533    |            |
| 380-153640-4         | AIEA GULCH WELLS PUMP 2 (331-202-TP072)   | Total/NA  | Drinking Water | 533    |            |
| MBL 380-156681/22-A  | Method Blank                              | Total/NA  | Water          | 533    |            |
| LCS 380-156681/24-A  | Lab Control Sample                        | Total/NA  | Water          | 533    |            |
| MRL 380-156681/23-A  | Lab Control Sample                        | Total/NA  | Water          | 533    |            |
| 380-153424-E-2-A MSD | Matrix Spike Duplicate                    | Total/NA  | Water          | 533    |            |
| 380-153424-F-2-A MS  | Matrix Spike                              | Total/NA  | Water          | 533    |            |

### Analysis Batch: 156919

| Lab Sample ID        | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-153640-1         | MOANALUA WELLS P3 (331-223-TP202)         | Total/NA  | Drinking Water | 533    | 156681     |
| 380-153640-2         | AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP | Total/NA  | Drinking Water | 533    | 156681     |
| 380-153640-3         | AIEA GULCH WELLS PUMP 1 (331-201-TP071)   | Total/NA  | Drinking Water | 533    | 156681     |
| 380-153640-4         | AIEA GULCH WELLS PUMP 2 (331-202-TP072)   | Total/NA  | Drinking Water | 533    | 156681     |
| MBL 380-156681/22-A  | Method Blank                              | Total/NA  | Water          | 533    | 156681     |
| LCS 380-156681/24-A  | Lab Control Sample                        | Total/NA  | Water          | 533    | 156681     |
| MRL 380-156681/23-A  | Lab Control Sample                        | Total/NA  | Water          | 533    | 156681     |
| 380-153424-E-2-A MSD | Matrix Spike Duplicate                    | Total/NA  | Water          | 533    | 156681     |
| 380-153424-F-2-A MS  | Matrix Spike                              | Total/NA  | Water          | 533    | 156681     |

# Lab Chronicle

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

**Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)**

**Lab Sample ID: 380-153640-1**

**Date Collected: 06/02/25 09:20**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156681       | E9PK    | EA POM | 06/08/25 15:27       |
| Total/NA  | Analysis   | 533          |     | 1               | 156919       | SZ9R    | EA POM | 06/09/25 22:46       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:00       |

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

**Lab Sample ID: 380-153640-2**

**Date Collected: 06/02/25 10:40**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156681       | E9PK    | EA POM | 06/08/25 15:27       |
| Total/NA  | Analysis   | 533          |     | 1               | 156919       | SZ9R    | EA POM | 06/09/25 22:55       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:09       |

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

**Lab Sample ID: 380-153640-3**

**Date Collected: 06/02/25 10:10**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156681       | E9PK    | EA POM | 06/08/25 15:27       |
| Total/NA  | Analysis   | 533          |     | 1               | 156919       | SZ9R    | EA POM | 06/09/25 23:05       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:19       |

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

**Lab Sample ID: 380-153640-4**

**Date Collected: 06/02/25 10:15**

**Matrix: Drinking Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156681       | E9PK    | EA POM | 06/08/25 15:27       |
| Total/NA  | Analysis   | 533          |     | 1               | 156919       | SZ9R    | EA POM | 06/09/25 23:15       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:29       |

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

**Lab Sample ID: 380-153640-5**

**Date Collected: 06/02/25 09:20**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156553       | E9PK    | EA POM | 06/06/25 16:28       |
| Total/NA  | Analysis   | 533          |     | 1               | 156645       | Y5FM    | EA POM | 06/07/25 13:21       |

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# Lab Chronicle

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-153640-5**

**Date Collected: 06/02/25 09:20**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:38       |

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

**Lab Sample ID: 380-153640-6**

**Date Collected: 06/02/25 10:40**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156553       | E9PK    | EA POM | 06/06/25 16:28       |
| Total/NA  | Analysis   | 533          |     | 1               | 156645       | Y5FM    | EA POM | 06/07/25 13:30       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 16:48       |

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

**Lab Sample ID: 380-153640-7**

**Date Collected: 06/02/25 10:10**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156553       | E9PK    | EA POM | 06/06/25 16:28       |
| Total/NA  | Analysis   | 533          |     | 1               | 156645       | Y5FM    | EA POM | 06/07/25 13:40       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 17:09       |

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

**Lab Sample ID: 380-153640-8**

**Date Collected: 06/02/25 10:15**

**Matrix: Water**

**Date Received: 06/04/25 09:47**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab    | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA  | Prep       | 533          |     |                 | 156553       | E9PK    | EA POM | 06/06/25 16:28       |
| Total/NA  | Analysis   | 533          |     | 1               | 156645       | Y5FM    | EA POM | 06/07/25 13:50       |
| Total/NA  | Prep       | 537.1 DW     |     |                 | 156220       | G9MN    | EA POM | 06/05/25 02:15       |
| Total/NA  | Analysis   | 537.1        |     | 1               | 156304       | SZ9R    | EA POM | 06/05/25 17:20       |

## 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: 380-153640-1  
SDG: Weekly PFAS

Laboratory: Eurofins Eaton Analytical Pomona

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

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

|    |
|----|
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## Method Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

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

### Protocol References:

EPA = US Environmental Protection Agency

### Laboratory References:

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

# Sample Summary

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

Job ID: 380-153640-1  
SDG: Weekly PFAS

| Lab Sample ID | Client Sample ID                                  | Matrix         | Collected      | Received       | PWSID Number |
|---------------|---------------------------------------------------|----------------|----------------|----------------|--------------|
| 380-153640-1  | MOANALUA WELLS P3 (331-223-TP202)                 | Drinking Water | 06/02/25 09:20 | 06/04/25 09:47 | HI0000331    |
| 380-153640-2  | AIEA WELLS PUMPS 1&2 (260) P2<br>(331-203-TP400)  | Drinking Water | 06/02/25 10:40 | 06/04/25 09:47 | HI0000331    |
| 380-153640-3  | AIEA GULCH WELLS PUMP 1 (331-201-TP071)           | Drinking Water | 06/02/25 10:10 | 06/04/25 09:47 | HI0000331    |
| 380-153640-4  | AIEA GULCH WELLS PUMP 2 (331-202-TP072)           | Drinking Water | 06/02/25 10:15 | 06/04/25 09:47 | HI0000331    |
| 380-153640-5  | FB: MOANALUA WELLS (331-223-TP202)                | Water          | 06/02/25 09:20 | 06/04/25 09:47 | HI0000331    |
| 380-153640-6  | FB: AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | Water          | 06/02/25 10:40 | 06/04/25 09:47 | HI0000331    |
| 380-153640-7  | FB: AIEA GULCH WELLS PUMP 1<br>(331-201-TP071)    | Water          | 06/02/25 10:10 | 06/04/25 09:47 | HI0000331    |
| 380-153640-8  | FB: AIEA GULCH WELLS PUMP 2<br>(331-202-TP072)    | Water          | 06/02/25 10:15 | 06/04/25 09:47 | HI0000331    |

# Chain of Custody Record

|                                                                                                                                                                                                                        |  |                                                                                         |  |                                           |  |                                                                                                                                                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|-------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b>                                                                                                                                                                                              |  | Lab PM<br>Arada, Rachelle                                                               |  | Carrier Tracking No(s)                    |  | COC No:<br>380-28005-2757 1                                                                                                                                                                                                           |  |
| Client Contact:<br>Kirk Iwamoto                                                                                                                                                                                        |  | Phone:<br>+1 808 748 5840                                                               |  | E-Mail:<br>Rachelle.Arada@et.eurofins.com |  | Page:<br>Page 1 of 1                                                                                                                                                                                                                  |  |
| Company:<br>City & County of Honolulu                                                                                                                                                                                  |  | PWSID                                                                                   |  | Analysis Requested                        |  | Job #:                                                                                                                                                                                                                                |  |
| Address:<br>630 South Beretania Street Chemistry Lab<br>Honolulu                                                                                                                                                       |  | Due Date Requested                                                                      |  | TAT Requested (days)                      |  | Preservation Codes:<br>R - NaTHSO4<br>RA - NaTHIOHCl<br>Q - Na2SO3<br>QA - Na2SO3/HCl<br>Y - Trizma<br>I - NH4 Acetate                                                                                                                |  |
| State, Zip:<br>HI, 96843                                                                                                                                                                                               |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | FO #:<br>C20525101 exp 05312023           |  | Other:                                                                                                                                                                                                                                |  |
| Phone:<br>808-748-5840 (Tel)                                                                                                                                                                                           |  | WFO #:                                                                                  |  | Project #:<br>38001111                    |  | Total Number of containers                                                                                                                                                                                                            |  |
| Email:<br>kiwamoto@hbws.org                                                                                                                                                                                            |  | SSOW#:                                                                                  |  | Event Desc: RUSH Weekly Red Hill          |  | Special Instructions/Note:                                                                                                                                                                                                            |  |
| Project Name:<br>RED-HILL/HBWS Sites                                                                                                                                                                                   |  | Sample Date                                                                             |  | Sample Time                               |  | Matrix<br>(W=water, S=solid, O=washbott, I=Irritant, A=Acid)                                                                                                                                                                          |  |
| Site:<br>Hawaii                                                                                                                                                                                                        |  | Sample Type<br>(C=Comp, G=grab)                                                         |  | Preservation Code                         |  | Field Filtered Sample (Yes or No)                                                                                                                                                                                                     |  |
| Sample Identification                                                                                                                                                                                                  |  | Sample Date                                                                             |  | Sample Time                               |  | Perform MS/MSD (Yes or No)                                                                                                                                                                                                            |  |
| Moanalua Wells P 3                                                                                                                                                                                                     |  | 2-Jun-2025                                                                              |  | 0920                                      |  | <input checked="" type="checkbox"/> R <input checked="" type="checkbox"/> RA <input checked="" type="checkbox"/> Q <input checked="" type="checkbox"/> OA <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> I |  |
| Aiea Wells Units 1&2 (260) P 2                                                                                                                                                                                         |  | 2-Jun-2025                                                                              |  | 1040                                      |  | 533 - All Analytes                                                                                                                                                                                                                    |  |
| Aiea Gulch Wells P1                                                                                                                                                                                                    |  | 2-Jun-2025                                                                              |  | 1010                                      |  | 537 1_DW_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                 |  |
| Aiea Gulch Wells P2                                                                                                                                                                                                    |  | 2-Jun-2025                                                                              |  | 1015                                      |  | 537 2_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                    |  |
| FB Moanalua Wells                                                                                                                                                                                                      |  | 2-Jun-2025                                                                              |  | 0920                                      |  | 537 1_DW_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                 |  |
| FB Aiea Wells Units 1&2                                                                                                                                                                                                |  | 2-Jun-2025                                                                              |  | 1040                                      |  | 537 2_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                    |  |
| FB Aiea Gulch Wells P1                                                                                                                                                                                                 |  | 2-Jun-2025                                                                              |  | 1010                                      |  | 537 1_DW_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                 |  |
| FB Aiea Gulch Wells P2                                                                                                                                                                                                 |  | 2-Jun-2025                                                                              |  | 1015                                      |  | 537 2_PREC (MOD) 525plus Plus TICs                                                                                                                                                                                                    |  |
| Possible Hazard Identification                                                                                                                                                                                         |  | Sample Date                                                                             |  | Sample Time                               |  | Matrix                                                                                                                                                                                                                                |  |
| <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 |  | Sample Date                                                                             |  | Sample Time                               |  | Matrix                                                                                                                                                                                                                                |  |
| Deliverable Requested I, II, III, IV, Other (specify)                                                                                                                                                                  |  | Sample Date                                                                             |  | Sample Time                               |  | Matrix                                                                                                                                                                                                                                |  |
| Empty Kit Relinquished by                                                                                                                                                                                              |  | Date                                                                                    |  | Time                                      |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)                                                                                                                                                   |  |
| Relinquished by                                                                                                                                                                                                        |  | Date/Time: 6/3/25 1000                                                                  |  | Company                                   |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months                                                                                                        |  |
| Relinquished by                                                                                                                                                                                                        |  | Date/Time:                                                                              |  | Company                                   |  | Special Instructions/QC Requirements                                                                                                                                                                                                  |  |
| Relinquished by                                                                                                                                                                                                        |  | Date/Time:                                                                              |  | Company                                   |  | FEDEX (2) 8817 4366 2848 (3) 8817 4366 2857                                                                                                                                                                                           |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                              |  | Date/Time:                                                                              |  | Company                                   |  | Method of Shipment: (4) 8817 4366 2860                                                                                                                                                                                                |  |
| Custody Seal No                                                                                                                                                                                                        |  | Date/Time:                                                                              |  | Company                                   |  | Date/Time: 06/04/25 09:47                                                                                                                                                                                                             |  |
| Cooler Temperature(s) °C and Other Remarks:                                                                                                                                                                            |  | Date/Time:                                                                              |  | Company                                   |  | Date/Time: 06/04/25 09:47                                                                                                                                                                                                             |  |
| (73A) (2) 1.4°-0.0° ± 1.4° (3) 1.3°-0.0° ± 1.3° (4) 2.5°-0.0° ± 2.5°                                                                                                                                                   |  | Date/Time:                                                                              |  | Company                                   |  | Date/Time: 06/04/25 09:47                                                                                                                                                                                                             |  |
| Ver 04/02/2024                                                                                                                                                                                                         |  | Date/Time:                                                                              |  | Company                                   |  | Date/Time: 06/04/25 09:47                                                                                                                                                                                                             |  |

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153640-1

SDG Number: Weekly PFAS

**Login Number: 153640**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Segura, Ryan**

| 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).             | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Container provided by EEA                                                        | True   |         |