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# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

RED-HILL  
PFAS: Aiea Wells Units 1&2 P2

## JOB NUMBER

380-189490-1

# Eurofins Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



Authorized for release by  
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(626)386-1100

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# Definitions/Glossary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

## Qualifiers

### LCMS

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

## Glossary

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

# Case Narrative

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

Job ID: 380-189490-1

**Job ID: 380-189490-1**

**Eurofins Pomona**

## Job Narrative 380-189490-1

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

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

### Receipt

The samples were received on 12/24/2025 10:37 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C.

### PFAS

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

# Detection Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1**

No Detections.

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

**Lab Sample ID: 380-189490-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1**

**Date Collected: 12/22/25 09:30**

**Matrix: Drinking Water**

**Date Received: 12/24/25 10:37**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 17:07	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	96		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C6 PFDA	98		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C5 PFHxA	96		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C4 PFHpA	99		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C8 PFOA	104		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C9 PFNA	102		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C7 PFUnA	95		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C2 PFDoA	98		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C4 PFBA	105		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C5 PFPeA	94		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C3 PFBS	102		50 - 200			12/30/25 20:27	12/31/25 17:07	1
13C3 PFHxS	105		50 - 200			12/30/25 20:27	12/31/25 17:07	1

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# Client Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1**

Date Collected: 12/22/25 09:30  
Date Received: 12/24/25 10:37

Matrix: Drinking Water  
PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		50 - 200	12/30/25 20:27	12/31/25 17:07	1
13C2-4:2-FTS	89		50 - 200	12/30/25 20:27	12/31/25 17:07	1
13C2-6:2-FTS	88		50 - 200	12/30/25 20:27	12/31/25 17:07	1
13C2-8:2-FTS	91		50 - 200	12/30/25 20:27	12/31/25 17:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/27/25 06:41	12/29/25 09:26	1

  

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130	12/27/25 06:41	12/29/25 09:26	1
13C2 PFHxA	107		70 - 130	12/27/25 06:41	12/29/25 09:26	1
13C2 PFDA	115		70 - 130	12/27/25 06:41	12/29/25 09:26	1
13C3-GenX	92		70 - 130	12/27/25 06:41	12/29/25 09:26	1

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

**Lab Sample ID: 380-189490-2**

Date Collected: 12/22/25 09:30  
Date Received: 12/24/25 10:37

Matrix: Water  
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1

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# Client Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-2**

**Date Collected: 12/22/25 09:30  
Date Received: 12/24/25 10:37**

**Matrix: Water  
PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 20:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C6 PFDA	103		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C5 PFHxA	107		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C4 PFHpA	108		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C8 PFOA	111		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C9 PFNA	104		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C7 PFUnA	97		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C2 PFDoA	101		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C4 PFBA	110		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C5 PFPeA	100		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C3 PFBS	109		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C3 PFHxS	112		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C8 PFOS	103		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C2-4:2-FTS	100		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C2-6:2-FTS	95		50 - 200	12/30/25 20:27	12/31/25 20:25	1
13C2-8:2-FTS	92		50 - 200	12/30/25 20:27	12/31/25 20:25	1

# Client Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-2**

**Date Collected: 12/22/25 09:30**

**Matrix: Water**

**Date Received: 12/24/25 10:37**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
N-ethylperfluorooctanesulfonamide cetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 20:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	110		70 - 130			12/29/25 16:25	12/30/25 20:39	1
13C2 PFHxA	110		70 - 130			12/29/25 16:25	12/30/25 20:39	1
13C2 PFDA	108		70 - 130			12/29/25 16:25	12/30/25 20:39	1
13C3-GenX	103		70 - 130			12/29/25 16:25	12/30/25 20:39	1

## Action Limit Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1**

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

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

**Lab Sample ID: 380-189490-2**

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

# Surrogate Summary

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

Job ID: 380-189490-1  
 SDG: PFAS: Aiea Wells Units 1&2 P2

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	GenX
		(70-130)	(70-130)	(70-130)	(70-130)
380-189490-1	AIEA WELLS PUMPS 1&2 (260)	98	107	115	92
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	99	112	108	100
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	106	112	117	102

#### 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

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	GenX
		(70-130)	(70-130)	(70-130)	(70-130)
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (	110	110	108	103
380-189496-A-1-B MS	Matrix Spike	102	106	109	101
380-189496-A-1-C MSD	Matrix Spike Duplicate	109	110	116	107
LCS 380-194720/23-A	Lab Control Sample	87	102	104	75
LCS 380-194879/22-A	Lab Control Sample	104	107	105	101
MBL 380-194720/21-A	Method Blank	89	104	105	78
MBL 380-194879/20-A	Method Blank	99	97	102	90
MRL 380-194720/22-A	Lab Control Sample	93	109	104	92
MRL 380-194879/21-A	Lab Control Sample	106	99	107	97

#### 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: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-189490-1	AIEA WELLS PUMPS 1&2 (260)	96	98	96	99	104	102	95	98
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	99	101	105	104	105	103	101	105
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	100	100	99	104	103	105	100	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-189490-1	AIEA WELLS PUMPS 1&2 (260)	105	94	102	105	102	89	88	91
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	105	93	97	102	101	90	85	86
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	104	95	101	103	103	89	89	88

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (	101	103	107	108	111	104	97	101
LCS 380-195194/22-A	Lab Control Sample	100	101	97	100	104	99	105	105
MBL 380-195194/20-A	Method Blank	92	97	99	101	105	102	98	100
MRL 380-195194/21-A	Lab Control Sample	89	93	97	98	98	97	95	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (	110	100	109	112	103	100	95	92
LCS 380-195194/22-A	Lab Control Sample	101	92	98	102	100	86	86	86
MBL 380-195194/20-A	Method Blank	109	93	104	107	104	95	92	92
MRL 380-195194/21-A	Lab Control Sample	104	93	102	101	98	96	88	88

### Surrogate Legend

Eurofins Pomona

# Isotope Dilution Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

- 1
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- 17

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MBL 380-195194/20-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		12/30/25 20:27	12/31/25 16:39	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C6 PFDA	97		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C5 PFHxA	99		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C4 PFHpA	101		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C8 PFOA	105		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C9 PFNA	102		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C7 PFUnA	98		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C2 PFDoA	100		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C4 PFBA	109		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C5 PFPeA	93		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C3 PFBS	104		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C3 PFHxS	107		50 - 200	12/30/25 20:27	12/31/25 16:39	1

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MBL 380-195194/20-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 PFOS	104		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C2-4:2-FTS	95		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C2-6:2-FTS	92		50 - 200	12/30/25 20:27	12/31/25 16:39	1
13C2-8:2-FTS	92		50 - 200	12/30/25 20:27	12/31/25 16:39	1

**Lab Sample ID: LCS 380-195194/22-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	115		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	115		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	115		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	114		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	114		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	120	113		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	120	112		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	115		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	113		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	120	115		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	120	123		ng/L		102	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	119		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	120	113		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	113		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	120	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	121		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	124		ng/L		103	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	117		ng/L		97	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	112		ng/L		93	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	116		ng/L		96	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	110		ng/L		91	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	116		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	120	118		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	121		ng/L		101	70 - 130

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: LCS 380-195194/22-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	113		ng/L		94	70 - 130
<b>LCS LCS</b>							
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
13C3 HFPO-DA	100		50 - 200				
13C6 PFDA	101		50 - 200				
13C5 PFHxA	97		50 - 200				
13C4 PFHpA	100		50 - 200				
13C8 PFOA	104		50 - 200				
13C9 PFNA	99		50 - 200				
13C7 PFUnA	105		50 - 200				
13C2 PFDoA	105		50 - 200				
13C4 PFBA	101		50 - 200				
13C5 PFPeA	92		50 - 200				
13C3 PFBS	98		50 - 200				
13C3 PFHxS	102		50 - 200				
13C8 PFOS	100		50 - 200				
13C2-4:2-FTS	86		50 - 200				
13C2-6:2-FTS	86		50 - 200				
13C2-8:2-FTS	86		50 - 200				

**Lab Sample ID: MRL 380-195194/21-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.02	J	ng/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.04	J	ng/L		102	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.08	J	ng/L		104	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.14	J	ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.18	J	ng/L		109	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.22	J	ng/L		110	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.24	J	ng/L		111	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.30	J	ng/L		114	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.31	J	ng/L		115	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.16	J	ng/L		108	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.32	J	ng/L		115	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.23	J	ng/L		111	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.21	J	ng/L		110	50 - 150

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# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MRL 380-195194/21-A**  
**Matrix: Water**  
**Analysis Batch: 195239**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.18	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.47	J	ng/L		123	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.44	J	ng/L		122	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.99	J	ng/L		99	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.95	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.14	J	ng/L		107	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	2.05	J	ng/L		102	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	89		50 - 200
13C6 PFDA	93		50 - 200
13C5 PFHxA	97		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	98		50 - 200
13C9 PFNA	97		50 - 200
13C7 PFUnA	95		50 - 200
13C2 PFDoA	96		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	93		50 - 200
13C3 PFBS	102		50 - 200
13C3 PFHxS	101		50 - 200
13C8 PFOS	98		50 - 200
13C2-4:2-FTS	96		50 - 200
13C2-6:2-FTS	88		50 - 200
13C2-8:2-FTS	88		50 - 200

**Lab Sample ID: 380-189490-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 195239**

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

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		60.2	57.5		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	57.0		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	57.6		ng/L		96	70 - 130

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-189490-1 MS

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 195239

Prep Batch: 195194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.2	61.3		ng/L		102	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	59.7		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	58.1		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	60.1		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	59.9		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	62.4		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	58.6		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	63.4		ng/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	60.3		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.2	61.9		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	61.2		ng/L		102	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.2	59.6		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	64.4		ng/L		107	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	66.2		ng/L		110	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	63.9		ng/L		106	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	52.5		ng/L		87	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	62.7		ng/L		104	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	57.6		ng/L		96	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	61.6		ng/L		102	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	63.4		ng/L		103	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	61.1		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	58.8		ng/L		98	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	99		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	105		50 - 200
13C4 PFHpA	104		50 - 200
13C8 PFOA	105		50 - 200
13C9 PFNA	103		50 - 200
13C7 PFUnA	101		50 - 200
13C2 PFDoA	105		50 - 200
13C4 PFBA	105		50 - 200
13C5 PFPeA	93		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	102		50 - 200
13C8 PFOS	101		50 - 200

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 195239**

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	90		50 - 200
13C2-6:2-FTS	85		50 - 200
13C2-8:2-FTS	86		50 - 200

**Lab Sample ID: 380-189490-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 195239**

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)**  
**Prep Type: Total/NA**  
**Prep Batch: 195194**

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MSD Result</b>	<b>MSD Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.4	56.5		ng/L		94	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	59.3		ng/L		98	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	57.4		ng/L		95	70 - 130	0	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	59.6		ng/L		99	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	59.4		ng/L		97	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	60.0		ng/L		99	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	60.5		ng/L		100	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	59.5		ng/L		98	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	62.2		ng/L		101	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	59.8		ng/L		97	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	60.9		ng/L		101	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	61.2		ng/L		100	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	59.8		ng/L		98	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	61.0		ng/L		101	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	59.8		ng/L		99	70 - 130	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	64.8		ng/L		107	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	65.9		ng/L		109	70 - 130	0	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	58.5		ng/L		97	70 - 130	9	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	53.4		ng/L		88	70 - 130	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	59.9		ng/L		99	70 - 130	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	58.8		ng/L		97	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	60.8		ng/L		101	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	59.1		ng/L		96	70 - 130	7	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	62.5		ng/L		103	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	59.8		ng/L		99	70 - 130	2	30

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# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	100		50 - 200
13C6 PFDA	100		50 - 200
13C5 PFHxA	99		50 - 200
13C4 PFHpA	104		50 - 200
13C8 PFOA	103		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	100		50 - 200
13C2 PFDoA	100		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	95		50 - 200
13C3 PFBS	101		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	89		50 - 200
13C2-8:2-FTS	88		50 - 200

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

**Lab Sample ID: MBL 380-194720/21-A**  
**Matrix: Water**  
**Analysis Batch: 194754**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 194720**

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/27/25 06:41	12/29/25 08:55	1

  

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	89		70 - 130	12/27/25 06:41	12/29/25 08:55	1
13C2 PFHxA	104		70 - 130	12/27/25 06:41	12/29/25 08:55	1
13C2 PFDA	105		70 - 130	12/27/25 06:41	12/29/25 08:55	1

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# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MBL 380-194720/21-A**  
**Matrix: Water**  
**Analysis Batch: 194754**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 194720**

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	78	Qualifier	70 - 130	12/27/25 06:41	12/29/25 08:55	1

**Lab Sample ID: LCS 380-194720/23-A**  
**Matrix: Water**  
**Analysis Batch: 194754**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194720**

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>					
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	25.1	18.1		ng/L		72		70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.1	26.1		ng/L		104		70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	27.4		ng/L		109		70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.1		ng/L		92		70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	22.0		ng/L		88		70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	24.2		ng/L		97		70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	27.4		ng/L		109		70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.3		ng/L		101		70 - 130
Perfluorodecanoic acid (PFDA)	25.1	26.0		ng/L		104		70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	26.2		ng/L		105		70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	27.5		ng/L		110		70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	26.5		ng/L		106		70 - 130
Perfluorononanoic acid (PFNA)	25.1	26.2		ng/L		105		70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	18.1		ng/L		72		70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	28.9		ng/L		116		70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	25.1	25.5		ng/L		102		70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	25.8		ng/L		103		70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	24.3		ng/L		97		70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	87		70 - 130
13C2 PFHxA	102		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	75		70 - 130

# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MRL 380-194720/22-A**  
**Matrix: Water**  
**Analysis Batch: 194754**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194720**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.86	J	ng/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.18	J	ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.99	J	ng/L		100	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.39	J	ng/L		119	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.11	J	ng/L		105	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.21	J	ng/L		110	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.25	J	ng/L		112	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.21	J	ng/L		60	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.00	2.06	J	ng/L		103	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.99	J	ng/L		99	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.87	J	ng/L		94	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.26	J	ng/L		113	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	93		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	92		70 - 130

**Lab Sample ID: 380-189490-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 194754**

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)**  
**Prep Type: Total/NA**  
**Prep Batch: 194720**

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		25.1	22.6		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.5		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	28.2		ng/L		112	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	24.7		ng/L		98	70 - 130

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# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1 MS**

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

**Matrix: Drinking Water**

**Prep Type: Total/NA**

**Analysis Batch: 194754**

**Prep Batch: 194720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	24.9		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	28.4		ng/L		108	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	28.1		ng/L		112	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.3		ng/L		105	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	25.7		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	27.0		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	28.0		ng/L		109	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.9		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	27.6		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	18.6		ng/L		74	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	<2.0		25.1	28.7		ng/L		114	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	25.6		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	26.5		ng/L		105	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	26.3		ng/L		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	112		70 - 130
13C2 PFDA	108		70 - 130
13C3-GenX	100		70 - 130

**Lab Sample ID: 380-189490-1 MSD**

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

**Matrix: Drinking Water**

**Prep Type: Total/NA**

**Analysis Batch: 194754**

**Prep Batch: 194720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	22.4		ng/L		89	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.5		ng/L		106	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	29.1		ng/L		116	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	25.1		ng/L		100	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	25.7		ng/L		102	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	28.6		ng/L		109	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	28.2		ng/L		112	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.5		ng/L		106	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	26.6		ng/L		106	70 - 130	3	30

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# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: MBL 380-194879/20-A**  
**Matrix: Water**  
**Analysis Batch: 194988**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 194879**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/29/25 16:25	12/30/25 18:51	1

  

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C2 PFHxA	97		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C2 PFDA	102		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C3-GenX	90		70 - 130	12/29/25 16:25	12/30/25 18:51	1

**Lab Sample ID: LCS 380-194879/22-A**  
**Matrix: Water**  
**Analysis Batch: 194988**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.2	49.9		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.2	51.0		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	50.8		ng/L		101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	51.4		ng/L		102	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	49.8		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	49.6		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	50.3		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	50.2	51.3		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	50.2	51.8		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	51.1		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	49.5		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	52.7		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	50.2	50.9		ng/L		101	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	37.1		ng/L		74	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	50.2	51.1		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.2	51.1		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	48.6		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	50.6		ng/L		101	70 - 130

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	104		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	105		70 - 130

# QC Sample Results

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

Job ID: 380-189490-1  
 SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: LCS 380-194879/22-A**  
**Matrix: Water**  
**Analysis Batch: 194988**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194879**

<i>Surrogate</i>	<i>LCS</i> <i>%Recovery</i>	<i>LCS</i> <i>Qualifier</i>	<i>Limits</i>
13C3-GenX	101		70 - 130

**Lab Sample ID: MRL 380-194879/21-A**  
**Matrix: Water**  
**Analysis Batch: 194988**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194879**

<i>Analyte</i>	<i>Spike</i> <i>Added</i>	<i>MRL</i> <i>Result</i>	<i>MRL</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	1.92	J	ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.05	J	ng/L		102	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.18	J	ng/L		108	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.12	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.83	J	ng/L		91	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	1.92	J	ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.12	J	ng/L		106	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.08	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.46	J	ng/L		73	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	1.84	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.93	J	ng/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.72	J	ng/L		86	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.15	J	ng/L		107	50 - 150

<i>Surrogate</i>	<i>MRL</i> <i>%Recovery</i>	<i>MRL</i> <i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	106		70 - 130
13C2 PFHxA	99		70 - 130
13C2 PFDA	107		70 - 130
13C3-GenX	97		70 - 130



# QC Sample Results

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189496-A-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 194988**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 194879**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	<2.0		50.2	52.7		ng/L		105	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	52.7		ng/L		105	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	54.0		ng/L		108	70 - 130	6	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	55.5		ng/L		111	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	56.1		ng/L		112	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	54.4		ng/L		108	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	53.4		ng/L		106	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	53.4		ng/L		106	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		50.2	54.1		ng/L		108	70 - 130	7	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	48.0		ng/L		96	70 - 130	11	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	55.8		ng/L		111	70 - 130	8	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		50.2	54.3		ng/L		108	70 - 130	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	50.7		ng/L		101	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	52.1		ng/L		104	70 - 130	1	30
<b>Surrogate</b>		<b>MSD</b>	<b>MSD</b>								
		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
d5-NEtFOSAA		109		70 - 130							
13C2 PFHxA		110		70 - 130							
13C2 PFDA		116		70 - 130							
13C3-GenX		107		70 - 130							

# QC Association Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

## LCMS

### Prep Batch: 194720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1 DW	
MBL 380-194720/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-194720/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-194720/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1 DW	
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1 DW	

### Analysis Batch: 194754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1	194720
MBL 380-194720/21-A	Method Blank	Total/NA	Water	537.1	194720
LCS 380-194720/23-A	Lab Control Sample	Total/NA	Water	537.1	194720
MRL 380-194720/22-A	Lab Control Sample	Total/NA	Water	537.1	194720
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1	194720
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	537.1	194720

### Prep Batch: 194879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	537.1 DW	
MBL 380-194879/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-194879/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-194879/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-189496-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-189496-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

### Analysis Batch: 194988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	537.1	194879
MBL 380-194879/20-A	Method Blank	Total/NA	Water	537.1	194879
LCS 380-194879/22-A	Lab Control Sample	Total/NA	Water	537.1	194879
MRL 380-194879/21-A	Lab Control Sample	Total/NA	Water	537.1	194879
380-189496-A-1-B MS	Matrix Spike	Total/NA	Water	537.1	194879
380-189496-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	194879

### Prep Batch: 195194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	533	
MBL 380-195194/20-A	Method Blank	Total/NA	Water	533	
LCS 380-195194/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-195194/21-A	Lab Control Sample	Total/NA	Water	533	
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	

### Analysis Batch: 195239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	195194
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	533	195194
MBL 380-195194/20-A	Method Blank	Total/NA	Water	533	195194
LCS 380-195194/22-A	Lab Control Sample	Total/NA	Water	533	195194
MRL 380-195194/21-A	Lab Control Sample	Total/NA	Water	533	195194

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# QC Association Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

## LCMS (Continued)

### Analysis Batch: 195239 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189490-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	195194
380-189490-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP	Total/NA	Drinking Water	533	195194

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- 14
- 15
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- 17

# Lab Chronicle

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

Job ID: 380-189490-1  
 SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Lab Sample ID: 380-189490-1**

**Date Collected: 12/22/25 09:30**

**Matrix: Drinking Water**

**Date Received: 12/24/25 10:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195194	N8NE	EA POM	12/30/25 20:27
Total/NA	Analysis	533		1	195239	Y5FM	EA POM	12/31/25 17:07
Total/NA	Prep	537.1 DW			194720	E9PK	EA POM	12/27/25 06:41
Total/NA	Analysis	537.1		1	194754	M7ML	EA POM	12/29/25 09:26

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

**Lab Sample ID: 380-189490-2**

**Date Collected: 12/22/25 09:30**

**Matrix: Water**

**Date Received: 12/24/25 10:37**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195194	N8NE	EA POM	12/30/25 20:27
Total/NA	Analysis	533		1	195239	Y5FM	EA POM	12/31/25 20:25
Total/NA	Prep	537.1 DW			194879	E2HD	EA POM	12/29/25 16:25
Total/NA	Analysis	537.1		1	194988	SZ9R	EA POM	12/30/25 20:39

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

## Laboratory: Eurofins Pomona

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

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

- 1
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# Method Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

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

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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



# Sample Summary

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

Job ID: 380-189490-1  
SDG: PFAS: Aiea Wells Units 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-189490-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	12/22/25 09:30	12/24/25 10:37	HI0000331
380-189490-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	12/22/25 09:30	12/24/25 10:37	HI0000331

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<b>Client Information</b>		Lab P/N: Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #: Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
Address: 630 South Beretania Street Chemistry Lab Honolulu HI, 96843		Due Date Requested: TAT Requested (days):		Field Filtered Sample (Yes or No)		Total Number of Containers	
Phone: 808-748-5840 (Tel)		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Perform MS/MSD (Yes or No)		Other	
Email: kiwamoto@hbws.org		PO #: C20525101 exp 05312023		8015B_GRO_LL - (MOD) GRO		Special Instructions/Note:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		WO #: 38001111		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		chlorinated	
Site: Hawaii		SSOW#:		625.1_625.1_SIM		chlorinated	
<b>Sample Identification</b>		Sample Date		Sample Type (C=Comp, G=grab)		Matrix (Water, Soil, Tissue, etc.)	
Aiea Wells Units 1&2 (260) P2		12/22/25		G		Water	
FB Aiea Wells Units 1&2		22-Dec-2025		G		chlorinated	
<b>Possible Hazard Identification</b>		<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		RA Q OA Y I		380-189490 COC	
Deliverable Requested: I, II, III, IV, Other (specify)		Date		R A Q OA Y I		Temp Blank - 20C	
Empty Kit Relinquished by:		Date		3 3		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished		12/22/25 11:00		1 1		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished		Date/Time: 12/24/25 10:37		380-189490 COC		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time:		380-189490 COC		Method of Shipment: 8873 SUR 3271 Fed	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Date/Time:		380-189490 COC		Received by: [Signature]	
Custody Seal No		Date/Time:		380-189490 COC		Received by: [Signature]	
Cooler Temperature(s) °C and Other Remarks: 0.7 / 0.7 631A Plus Ice		Date/Time:		380-189490 COC		Received by: [Signature]	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-189490-1  
SDG Number: PFAS: Aiea Wells Units 1&2 P2

**Login Number: 189490**

**List Number: 1**

**Creator: Sanchez, Joseph G**

**List Source: Eurofins Pomona**

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

