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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
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JOB DESCRIPTION

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

JOB NUMBER

380-191110-1

Eurofins Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-191110-1
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: 380-191110-1

Job ID: 380-191110-1

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Job Narrative 380-191110-1

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

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

Receipt

The samples were received on 1/7/2026 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

PFAS

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: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191110-1

No Detections.

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

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: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191110-1

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

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		01/08/26 18:35	01/09/26 10:34	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	109		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C6 PFDA	110		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C5 PFHxA	113		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C4 PFHpA	109		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C8 PFOA	108		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C9 PFNA	111		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C7 PFUnA	113		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C2 PFDoA	110		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C4 PFBA	112		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C5 PFPeA	115		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C3 PFBS	111		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C3 PFHxS	107		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C8 PFOS	108		50 - 200	01/08/26 18:35	01/09/26 10:34	1

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Client Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191110-1

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

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	117		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C2-6:2-FTS	109		50 - 200	01/08/26 18:35	01/09/26 10:34	1
13C2-8:2-FTS	111		50 - 200	01/08/26 18:35	01/09/26 10:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			01/08/26 03:19	01/08/26 16:40	1
13C2 PFHxA	106		70 - 130			01/08/26 03:19	01/08/26 16:40	1
13C2 PFDA	108		70 - 130			01/08/26 03:19	01/08/26 16:40	1
13C3-GenX	95		70 - 130			01/08/26 03:19	01/08/26 16:40	1

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1

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Client Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 18:35	01/09/26 10:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C6 PFDA	114		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C5 PFHxA	110		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C4 PFHpA	104		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C8 PFOA	109		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C9 PFNA	110		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C7 PFUnA	114		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C2 PFDoA	113		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C4 PFBA	107		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C5 PFPeA	116		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C3 PFBS	106		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C3 PFHxS	107		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C8 PFOS	110		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C2-4:2-FTS	115		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C2-6:2-FTS	116		50 - 200	01/08/26 18:35	01/09/26 10:44	1
13C2-8:2-FTS	116		50 - 200	01/08/26 18:35	01/09/26 10:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130	01/08/26 03:19	01/08/26 19:32	1
13C2 PFHxA	114		70 - 130	01/08/26 03:19	01/08/26 19:32	1
13C2 PFDA	112		70 - 130	01/08/26 03:19	01/08/26 19:32	1
13C3-GenX	101		70 - 130	01/08/26 03:19	01/08/26 19:32	1

Action Limit Summary

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191110-1

Compliance Check

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

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

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-191110-1
 SDG: PFAS: Aiea Wells Units 1&2 P2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-191110-1	AIEA WELLS Units 1&2 (260) P2	102	106	108	95
380-191110-1 MS	AIEA WELLS Units 1&2 (260) P2	100	103	112	97
380-191110-1 MSD	AIEA WELLS Units 1&2 (260) P2	98	106	110	94
380-191110-2	FB AIEA WELLS Units 1&2	105	114	112	101
LCS 380-196348/23-A	Lab Control Sample	96	104	108	91
MBL 380-196348/21-A	Method Blank	103	106	106	92
MRL 380-196348/22-A	Lab Control Sample	107	111	112	100

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: 380-191110-1
 SDG: PFAS: Aiea Wells Units 1&2 P2

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-191110-1	AIEA WELLS Units 1&2 (260) P2	109	110	113	109	108	111	113	110
380-191110-2	FB AIEA WELLS Units 1&2	99	114	110	104	109	110	114	113
380-191115-B-1-A MS	Matrix Spike	104	105	106	108	109	110	111	110
380-191115-B-1-B MSD	Matrix Spike Duplicate	104	112	111	108	109	113	109	107
LCS 380-196518/22-A	Lab Control Sample	107	110	112	110	110	115	111	111
MBL 380-196518/20-A	Method Blank	102	119	114	112	113	119	118	119
MRL 380-196518/21-A	Lab Control Sample	108	119	117	111	113	117	118	118

		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)
380-191110-1	AIEA WELLS Units 1&2 (260) P2	112	115	111	107	108	117	109	111
380-191110-2	FB AIEA WELLS Units 1&2	107	116	106	107	110	115	116	116
380-191115-B-1-A MS	Matrix Spike	105	110	111	113	110	125	117	117
380-191115-B-1-B MSD	Matrix Spike Duplicate	106	115	113	107	110	124	119	117
LCS 380-196518/22-A	Lab Control Sample	109	121	113	108	112	129	123	121
MBL 380-196518/20-A	Method Blank	111	121	104	110	112	131	126	128
MRL 380-196518/21-A	Lab Control Sample	111	120	111	110	110	127	118	121

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-196518/20-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196518

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		01/08/26 18:35	01/09/26 07:16	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/08/26 18:35	01/09/26 07:16	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C6 PFDA	119		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C5 PFHxA	114		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C4 PFHpA	112		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C8 PFOA	113		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C9 PFNA	119		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C7 PFUnA	118		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C2 PFDoA	119		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C4 PFBA	111		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C5 PFPeA	121		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C3 PFBS	104		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C3 PFHxS	110		50 - 200	01/08/26 18:35	01/09/26 07:16	1

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QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-196518/20-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196518

<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	112		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C2-4:2-FTS	131		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C2-6:2-FTS	126		50 - 200	01/08/26 18:35	01/09/26 07:16	1
13C2-8:2-FTS	128		50 - 200	01/08/26 18:35	01/09/26 07:16	1

Lab Sample ID: LCS 380-196518/22-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196518

<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)	60.2	50.4		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	52.7		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	55.2		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	55.7		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	54.6		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	54.8		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	56.6		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	56.3		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	57.2		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	56.1		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	60.2	54.8		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	53.9		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	56.8		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	57.9		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	54.8		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	54.6		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	54.5		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	56.3		ng/L		93	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	53.6		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.2	54.7		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	57.0		ng/L		95	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	55.2		ng/L		92	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	52.0		ng/L		86	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	55.3		ng/L		92	70 - 130

QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: LCS 380-196518/22-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	56.8		ng/L		94	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	107		50 - 200				
13C6 PFDA	110		50 - 200				
13C5 PFHxA	112		50 - 200				
13C4 PFHpA	110		50 - 200				
13C8 PFOA	110		50 - 200				
13C9 PFNA	115		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	111		50 - 200				
13C4 PFBA	109		50 - 200				
13C5 PFPeA	121		50 - 200				
13C3 PFBS	113		50 - 200				
13C3 PFHxS	108		50 - 200				
13C8 PFOS	112		50 - 200				
13C2-4:2-FTS	129		50 - 200				
13C2-6:2-FTS	123		50 - 200				
13C2-8:2-FTS	121		50 - 200				

Lab Sample ID: MRL 380-196518/21-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196518

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.89	J	ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.91	J	ng/L		95	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.04	J	ng/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.92	J	ng/L		95	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	1.94	J	ng/L		97	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.14	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	1.99	J	ng/L		99	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.93	J	ng/L		96	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.90	J	ng/L		94	50 - 150
Perfluorononanoic acid (PFNA)	2.01	1.88	J	ng/L		94	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	1.97	J	ng/L		98	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.16	J	ng/L		107	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	1.90	J	ng/L		95	50 - 150

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QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MRL 380-196518/21-A
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196518

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.02	J	ng/L		101	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.10	J	ng/L		105	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.20	J	ng/L		110	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.92	J	ng/L		96	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.87	J	ng/L		93	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.06	J	ng/L		102	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	1.81	J	ng/L		90	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.85	J	ng/L		92	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.89	J	ng/L		94	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	108		50 - 200
13C6 PFDA	119		50 - 200
13C5 PFHxA	117		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	117		50 - 200
13C7 PFUnA	118		50 - 200
13C2 PFDoA	118		50 - 200
13C4 PFBA	111		50 - 200
13C5 PFPeA	120		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	110		50 - 200
13C2-4:2-FTS	127		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	121		50 - 200

Lab Sample ID: 380-191115-B-1-A MS
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	50.3		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	51.2		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	55.2		ng/L		92	70 - 130

QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191115-B-1-A MS
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.2	55.4		ng/L		92	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	54.7		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	56.2		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	55.4		ng/L		92	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	55.9		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	54.8		ng/L		90	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	57.3		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	54.1		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	55.0		ng/L		88	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.2	54.5		ng/L		90	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	55.2		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.2	54.5		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	56.4		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	55.6		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	56.8		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	52.4		ng/L		87	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	53.7		ng/L		89	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	56.1		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	58.4		ng/L		97	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	53.0		ng/L		87	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	55.8		ng/L		93	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	54.3		ng/L		90	70 - 130

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	111		50 - 200
13C2 PFDoA	110		50 - 200
13C4 PFBA	105		50 - 200
13C5 PFPeA	110		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	113		50 - 200
13C8 PFOS	110		50 - 200

QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191115-B-1-A MS
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196518

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	125		50 - 200
13C2-6:2-FTS	117		50 - 200
13C2-8:2-FTS	117		50 - 200

Lab Sample ID: 380-191115-B-1-B MSD
Matrix: Water
Analysis Batch: 196632

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 196518

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	48.0		ng/L		80	70 - 130	5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	51.7		ng/L		86	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	54.5		ng/L		91	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	55.7		ng/L		92	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	55.8		ng/L		92	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		60.2	55.1		ng/L		91	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	54.4		ng/L		90	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	55.6		ng/L		92	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	56.3		ng/L		93	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	56.1		ng/L		92	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		60.2	53.5		ng/L		89	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	54.3		ng/L		87	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.2	55.8		ng/L		92	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	55.6		ng/L		92	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		60.2	54.0		ng/L		90	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	55.0		ng/L		91	70 - 130	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	56.0		ng/L		93	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	56.7		ng/L		94	70 - 130	0	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	52.1		ng/L		86	70 - 130	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	53.6		ng/L		89	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	54.9		ng/L		91	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	55.0		ng/L		91	70 - 130	6	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	53.3		ng/L		87	70 - 130	0	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	56.3		ng/L		93	70 - 130	1	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	57.3		ng/L		95	70 - 130	5	30

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QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	112		50 - 200
13C5 PFHxA	111		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	113		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	107		50 - 200
13C4 PFBA	106		50 - 200
13C5 PFPeA	115		50 - 200
13C3 PFBS	113		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	110		50 - 200
13C2-4:2-FTS	124		50 - 200
13C2-6:2-FTS	119		50 - 200
13C2-8:2-FTS	117		50 - 200

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

Lab Sample ID: MBL 380-196348/21-A
Matrix: Water
Analysis Batch: 196490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196348

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		01/08/26 03:19	01/08/26 16:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/08/26 03:19	01/08/26 16:11	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			01/08/26 03:19	01/08/26 16:11	1
13C2 PFHxA	106		70 - 130			01/08/26 03:19	01/08/26 16:11	1
13C2 PFDA	106		70 - 130			01/08/26 03:19	01/08/26 16:11	1

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QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-196348/21-A
Matrix: Water
Analysis Batch: 196490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196348

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	92	Qualifier	70 - 130	01/08/26 03:19	01/08/26 16:11	1

Lab Sample ID: LCS 380-196348/23-A
Matrix: Water
Analysis Batch: 196490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196348

<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	21.5		ng/L		86		70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.1	24.5		ng/L		98		70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	23.2		ng/L		93		70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.1		ng/L		92		70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	24.3		ng/L		97		70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	22.9		ng/L		91		70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	24.2		ng/L		97		70 - 130
Perfluorooctanoic acid (PFOA)	25.1	24.7		ng/L		98		70 - 130
Perfluorodecanoic acid (PFDA)	25.1	24.8		ng/L		99		70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	24.4		ng/L		98		70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	24.9		ng/L		100		70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	23.9		ng/L		95		70 - 130
Perfluorononanoic acid (PFNA)	25.1	23.5		ng/L		94		70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	21.5		ng/L		86		70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	26.7		ng/L		106		70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	23.4		ng/L		93		70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	25.7		ng/L		102		70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	23.6		ng/L		94		70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	96		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	108		70 - 130
13C3-GenX	91		70 - 130

QC Sample Results

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MRL 380-196348/22-A
Matrix: Water
Analysis Batch: 196490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196348

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.79	J	ng/L		89	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.01	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.98	J	ng/L		99	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.08	J	ng/L		104	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.11	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.76	J	ng/L		88	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.00	2.37	J	ng/L		118	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.07	J	ng/L		103	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.15	J	ng/L		107	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.01	J	ng/L		101	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	107		70 - 130
13C2 PFHxA	111		70 - 130
13C2 PFDA	112		70 - 130
13C3-GenX	100		70 - 130

Lab Sample ID: 380-191110-1 MS
Matrix: Water
Analysis Batch: 196490

Client Sample ID: AIEA WELLS Units 1&2 (260) P2
Prep Type: Total/NA
Prep Batch: 196348

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	22.8		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	25.2		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	23.7		ng/L		94	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	23.9		ng/L		95	70 - 130

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QC Association Summary

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

LCMS

Prep Batch: 196348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191110-1	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1 DW	
380-191110-2	FB AIEA WELLS Units 1&2	Total/NA	Water	537.1 DW	
MBL 380-196348/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-196348/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-196348/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-191110-1 MS	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1 DW	
380-191110-1 MSD	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1 DW	

Analysis Batch: 196490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191110-1	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1	196348
380-191110-2	FB AIEA WELLS Units 1&2	Total/NA	Water	537.1	196348
MBL 380-196348/21-A	Method Blank	Total/NA	Water	537.1	196348
LCS 380-196348/23-A	Lab Control Sample	Total/NA	Water	537.1	196348
MRL 380-196348/22-A	Lab Control Sample	Total/NA	Water	537.1	196348
380-191110-1 MS	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1	196348
380-191110-1 MSD	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	537.1	196348

Prep Batch: 196518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191110-1	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	533	
380-191110-2	FB AIEA WELLS Units 1&2	Total/NA	Water	533	
MBL 380-196518/20-A	Method Blank	Total/NA	Water	533	
LCS 380-196518/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-196518/21-A	Lab Control Sample	Total/NA	Water	533	
380-191115-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-191115-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 196632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-191110-1	AIEA WELLS Units 1&2 (260) P2	Total/NA	Water	533	196518
380-191110-2	FB AIEA WELLS Units 1&2	Total/NA	Water	533	196518
MBL 380-196518/20-A	Method Blank	Total/NA	Water	533	196518
LCS 380-196518/22-A	Lab Control Sample	Total/NA	Water	533	196518
MRL 380-196518/21-A	Lab Control Sample	Total/NA	Water	533	196518
380-191115-B-1-A MS	Matrix Spike	Total/NA	Water	533	196518
380-191115-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	196518

Lab Chronicle

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-191110-1

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196518	E2HD	EA POM	01/08/26 18:35
Total/NA	Analysis	533		1	196632	SZ9R	EA POM	01/09/26 10:34
Total/NA	Prep	537.1 DW			196348	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196490	Y5FM	EA POM	01/08/26 16:40

Client Sample ID: FB AIEA WELLS Units 1&2

Lab Sample ID: 380-191110-2

Date Collected: 01/05/26 09:05

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196518	E2HD	EA POM	01/08/26 18:35
Total/NA	Analysis	533		1	196632	SZ9R	EA POM	01/09/26 10:44
Total/NA	Prep	537.1 DW			196348	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196490	Y5FM	EA POM	01/08/26 19:32

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: 380-191110-1
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: 380-191110-1
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

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Sample Summary

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

Job ID: 380-191110-1
SDG: PFAS: Aiea Wells Units 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-191110-1	AIEA WELLS Units 1&2 (260) P2	Water	01/05/26 09:05	01/07/26 09:35	Hawaii
380-191110-2	FB AIEA WELLS Units 1&2	Water	01/05/26 09:05	01/07/26 09:35	Hawaii

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Chain of Custody Record

Client Information		Sampler: Allison Wfn		Lab PM: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Job #:		Analysis Requested		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Perform MS/MSD (Yes or No)		Total Number of Containers		Preservation Codes: R - NaHSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Field Filtered Sample (Yes or No)		6015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		Other: 380-191110 COC	
State Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		R 625_1_625_1_SIM		6015B_GRO_LL (MOD) GRO		Special Instructions/Note:	
Phone: 808-748-5840 (Tel)		FO #: C20525101 exp 05312023		RA 625_2_PREC (MOD) 625plus Plus TICs		6015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		chlorinated	
Email: kiwamoto@hbaws.org		WO #:		QA 637_1_DW_PREC - 637 1 Full List		633 - All Analytes		chlorinated	
Project Name: RED-HILL/HBWS Sites		Project #: 38001111		I 637_2_PREC (MOD) 625plus Plus TICs		637_2_PREC (MOD) 625plus Plus TICs		chlorinated	
Event Desc: RUSH Weekly Red Hill		SSOW#:		Y 637_1_DW_PREC - 637 1 Full List		633 - All Analytes		chlorinated	
Site: Hawaii		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water, B=Tissue, A=air)	
Aiea Wells Units 1&2 (260) P 2		5-Jan-2026		09:05		G		Water	
FB Aiea Wells Units 1&2		5-JAN-2026		09:05		1 I			
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)</p>									
<p>Empty Kit Relinquished by: Relinquished by: [Redacted] Date: 01-06-26 11:00 Company: [Redacted] Relinquished by: [Redacted] Date/Time: [Redacted] Company: [Redacted] Relinquished by: [Redacted] Date/Time: [Redacted] Company: [Redacted]</p>									
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No: [Redacted]</p>									
<p>Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Method of Shipment: FedEx 8376 7443 4137 Date/Time: 1/26 9:35 Company: FEAF Date/Time: [Redacted] Company: [Redacted] Date/Time: [Redacted] Company: [Redacted] Cooler Temperature(s) °C and Other Remarks: (631A) 2.9-5.0 2.9 961-10267 Ver: 04/02/2024</p>									



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-191110-1
SDG Number: PFAS: Aiea Wells Units 1&2 P2

Login Number: 191110

List Number: 1

Creator: Del Rosario, Michael

List Source: Eurofins Pomona

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

