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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells P1
RUSH Weekly Red Hill

JOB NUMBER

380-196023-1

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: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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: 380-196023-1

Job ID: 380-196023-1

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Job Narrative 380-196023-1

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 2/4/2026 9:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7°C, 2.1°C and 2.5°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: 380-196023-1
 SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-196023-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.9		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.7		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.8		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.9		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-196023-1

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorobutanesulfonic acid (PFBS)	2.9		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorohexanesulfonic acid (PFHxS)	3.5		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorohexanoic acid (PFHxA)	3.5		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorooctanesulfonic acid (PFOS)	4.7		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorooctanoic acid (PFOA)	3.8		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoropentanoic acid (PFPeA)	3.9		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C6 PFDA	105		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C5 PFHxA	113		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C4 PFHpA	113		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C8 PFOA	110		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C9 PFNA	107		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C7 PFUnA	105		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C2 PFDoA	105		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C4 PFBA	114		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C5 PFPeA	110		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C3 PFBS	120		50 - 200	02/05/26 06:46	02/05/26 21:46	1

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Client Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-196023-1

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	116		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C8 PFOS	113		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C2-4:2-FTS	126		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C2-6:2-FTS	115		50 - 200	02/05/26 06:46	02/05/26 21:46	1
13C2-8:2-FTS	107		50 - 200	02/05/26 06:46	02/05/26 21:46	1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorooctanesulfonic acid (PFOS)	5.4		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorohexanoic acid (PFHxA)	4.1		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
Perfluorotridecanoic acid (PFTDA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130	02/05/26 01:18	02/05/26 16:51	1
13C2 PFHxA	110		70 - 130	02/05/26 01:18	02/05/26 16:51	1
13C2 PFDA	114		70 - 130	02/05/26 01:18	02/05/26 16:51	1
13C3-GenX	110		70 - 130	02/05/26 01:18	02/05/26 16:51	1

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1

Client Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/05/26 06:46	02/05/26 21:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C6 PFDA	103		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C5 PFHxA	111		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C4 PFHpA	108		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C8 PFOA	108		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C9 PFNA	107		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C7 PFUnA	100		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C2 PFDoA	100		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C4 PFBA	107		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C5 PFPeA	106		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C3 PFBS	110		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C3 PFHxS	111		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C8 PFOS	108		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C2-4:2-FTS	115		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C2-6:2-FTS	112		50 - 200	02/05/26 06:46	02/05/26 21:55	1
13C2-8:2-FTS	100		50 - 200	02/05/26 06:46	02/05/26 21:55	1

Client Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/05/26 01:18	02/05/26 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	112		70 - 130			02/05/26 01:18	02/05/26 17:00	1
13C2 PFHxA	117		70 - 130			02/05/26 01:18	02/05/26 17:00	1
13C2 PFDA	116		70 - 130			02/05/26 01:18	02/05/26 17:00	1
13C3-GenX	116		70 - 130			02/05/26 01:18	02/05/26 17:00	1

Action Limit Summary

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-196023-1

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)	3.5		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.7		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	3.8		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.4		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

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	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Surrogate Summary

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

Job ID: 380-196023-1
 SDG: PFAS: Ka'amilo Wells P1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

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)
380-196006-A-1-B MS	Matrix Spike	110	116	120	114
380-196006-A-1-C MSD	Matrix Spike Duplicate	107	118	119	118
380-196023-1	Ka'amilo Wells P1	108	110	114	110
380-196023-2	FB: Ka'amilo Wells P1	112	117	116	116
LCS 380-203609/21-A	Lab Control Sample	111	119	118	116
MBL 380-203609/19-A	Method Blank	112	120	118	110
MRL 380-203609/20-A	Lab Control Sample	115	119	123	115

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: 380-196023-1
 SDG: PFAS: Ka'amilo Wells P1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)
380-196020-E-1-A MS	Matrix Spike	103	103	104	105	103	105	103	104
380-196020-F-1-A MSD	Matrix Spike Duplicate	106	105	107	115	107	109	106	104
380-196023-1	Ka'amilo Wells P1	103	105	113	113	110	107	105	105
380-196023-2	FB: Ka'amilo Wells P1	102	103	111	108	108	107	100	100
LCS 380-203617/22-A	Lab Control Sample	106	108	108	112	110	110	107	106
MBL 380-203617/20-A	Method Blank	104	109	109	113	114	110	107	106
MRL 380-203617/21-A	Lab Control Sample	103	107	107	110	108	108	106	101

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)
380-196020-E-1-A MS	Matrix Spike	105	106	115	113	113	115	115	108
380-196020-F-1-A MSD	Matrix Spike Duplicate	111	111	112	113	112	122	116	107
380-196023-1	Ka'amilo Wells P1	114	110	120	116	113	126	115	107
380-196023-2	FB: Ka'amilo Wells P1	107	106	110	111	108	115	112	100
LCS 380-203617/22-A	Lab Control Sample	109	111	115	112	114	113	116	109
MBL 380-203617/20-A	Method Blank	111	109	116	116	112	121	116	112
MRL 380-203617/21-A	Lab Control Sample	112	110	112	116	111	119	120	109

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: MBL 380-203617/20-A
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203617

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		02/05/26 06:46	02/05/26 18:08	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C6 PFDA	109		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C5 PFHxA	109		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C4 PFHpA	113		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C8 PFOA	114		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C9 PFNA	110		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C7 PFUnA	107		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C2 PFDoA	106		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C4 PFBA	111		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C5 PFPeA	109		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C3 PFBS	116		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C3 PFHxS	116		50 - 200	02/05/26 06:46	02/05/26 18:08	1

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QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: MBL 380-203617/20-A
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203617

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	112		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C2-4:2-FTS	121		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C2-6:2-FTS	116		50 - 200	02/05/26 06:46	02/05/26 18:08	1
13C2-8:2-FTS	112		50 - 200	02/05/26 06:46	02/05/26 18:08	1

Lab Sample ID: LCS 380-203617/22-A
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.1	54.3		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.1	57.1		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.1	59.5		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.1	56.3		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	60.1	57.2		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	60.1	57.7		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.1	55.6		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.1	56.9		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	60.1	56.1		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	60.1	56.6		ng/L		94	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.1	56.2		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	60.1	56.9		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.1	57.9		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	60.1	57.1		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.1	58.3		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.1	61.0		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.1	58.6		ng/L		97	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.1	57.4		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.1	55.7		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.1	57.2		ng/L		95	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.1	57.3		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	60.1	57.1		ng/L		95	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.1	57.5		ng/L		96	70 - 130

QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-203617/22-A

Matrix: Water

Analysis Batch: 203798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluoropentanesulfonic acid (PFPeS)	60.1	57.5		ng/L		96	70 - 130	
LCS LCS								
Isotope Dilution	%Recovery	Qualifier						Limits
13C3 HFPO-DA	106							50 - 200
13C6 PFDA	108							50 - 200
13C5 PFHxA	108							50 - 200
13C4 PFHpA	112							50 - 200
13C8 PFOA	110							50 - 200
13C9 PFNA	110							50 - 200
13C7 PFUnA	107							50 - 200
13C2 PFDoA	106							50 - 200
13C4 PFBA	109							50 - 200
13C5 PFPeA	111							50 - 200
13C3 PFBS	115							50 - 200
13C3 PFHxS	112							50 - 200
13C8 PFOS	114							50 - 200
13C2-4:2-FTS	113							50 - 200
13C2-6:2-FTS	116							50 - 200
13C2-8:2-FTS	109							50 - 200

Lab Sample ID: MRL 380-203617/21-A

Matrix: Water

Analysis Batch: 203798

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 203617

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.12	J	ng/L		106	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.07	J	ng/L		103	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.95	J	ng/L		97	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.01	J	ng/L		100	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	1.89	J	ng/L		94	50 - 150

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QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-203617/21-A
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203617

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.09	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.15	J	ng/L		107	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.40	J	ng/L		120	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	2.11	J	ng/L		105	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.04	J	ng/L		102	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	103		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	110		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	108		50 - 200
13C7 PFUnA	106		50 - 200
13C2 PFDoA	101		50 - 200
13C4 PFBA	112		50 - 200
13C5 PFPeA	110		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	119		50 - 200
13C2-6:2-FTS	120		50 - 200
13C2-8:2-FTS	109		50 - 200

Lab Sample ID: 380-196020-E-1-A MS
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203617

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		60.4	58.3		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	58.0		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	58.9		ng/L		98	70 - 130

QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: 380-196020-E-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 203798

Prep Batch: 203617

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		60.4	59.0		ng/L		98	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	3.0		60.4	61.3		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.4	59.9		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	59.6		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	61.4		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	3.5		60.4	62.1		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	3.7		60.4	60.9		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.4	58.3		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	4.5		60.4	62.8		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	3.7		60.4	65.5		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	58.5		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.4	59.3		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	61.1		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	62.6		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	63.0		ng/L		104	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	59.3		ng/L		98	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	57.6		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	60.3		ng/L		100	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	60.3		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	3.9		60.4	62.5		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	61.9		ng/L		102	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	58.7		ng/L		96	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	103		50 - 200
13C6 PFDA	103		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	103		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	105		50 - 200
13C5 PFPeA	106		50 - 200
13C3 PFBS	115		50 - 200
13C3 PFHxS	113		50 - 200
13C8 PFOS	113		50 - 200

QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Lab Sample ID: 380-196020-E-1-A MS
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203617

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	115		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	108		50 - 200

Lab Sample ID: 380-196020-F-1-A MSD
Matrix: Water
Analysis Batch: 203798

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 203617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.5	55.9		ng/L		92	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.5	55.7		ng/L		92	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.5	54.8		ng/L		91	70 - 130	7	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.5	57.9		ng/L		96	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	3.0		60.5	58.5		ng/L		92	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		60.5	57.8		ng/L		96	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.5	59.8		ng/L		99	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.5	55.6		ng/L		89	70 - 130	10	30
Perfluorohexanesulfonic acid (PFHxS)	3.5		60.5	58.8		ng/L		92	70 - 130	5	30
Perfluorohexanoic acid (PFHxA)	3.7		60.5	60.6		ng/L		94	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		60.5	56.7		ng/L		94	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	4.5		60.5	60.9		ng/L		93	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	3.7		60.5	59.5		ng/L		92	70 - 130	10	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.5	59.4		ng/L		98	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		60.5	57.2		ng/L		92	70 - 130	4	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.5	58.3		ng/L		96	70 - 130	5	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.5	57.0		ng/L		94	70 - 130	9	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.5	59.2		ng/L		98	70 - 130	6	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.5	54.2		ng/L		90	70 - 130	9	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.5	58.0		ng/L		96	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.5	57.2		ng/L		94	70 - 130	5	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.5	59.7		ng/L		99	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	3.9		60.5	63.1		ng/L		98	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.5	57.8		ng/L		96	70 - 130	7	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.5	57.3		ng/L		94	70 - 130	2	30

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QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	106		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	115		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	109		50 - 200
13C7 PFUnA	106		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	111		50 - 200
13C5 PFPeA	111		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	113		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	122		50 - 200
13C2-6:2-FTS	116		50 - 200
13C2-8:2-FTS	107		50 - 200

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Lab Sample ID: MBL 380-203609/19-A
Matrix: Water
Analysis Batch: 203712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203609

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		02/05/26 01:18	02/05/26 15:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/05/26 01:18	02/05/26 15:35	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	112		70 - 130	02/05/26 01:18	02/05/26 15:35	1
13C2 PFHxA	120		70 - 130	02/05/26 01:18	02/05/26 15:35	1
13C2 PFDA	118		70 - 130	02/05/26 01:18	02/05/26 15:35	1

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QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MBL 380-203609/19-A
Matrix: Water
Analysis Batch: 203712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203609

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	110	Qualifier	70 - 130	02/05/26 01:18	02/05/26 15:35	1

Lab Sample ID: LCS 380-203609/21-A
Matrix: Water
Analysis Batch: 203712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203609

<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>Analyte</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Hexafluoropropylene Oxide	25.0	26.4		ng/L		106	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.0	26.2		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.0	27.9		ng/L		112	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	26.5		ng/L		106	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	25.8		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	25.0	28.6		ng/L		114	70 - 130
Perfluorododecanoic acid (PFDoA)	25.0	27.1		ng/L		109	70 - 130
Perfluorooctanoic acid (PFOA)	25.0	26.9		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	25.0	27.2		ng/L		109	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.0	26.6		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.0	26.5		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.0	28.0		ng/L		112	70 - 130
Perfluorononanoic acid (PFNA)	25.0	27.0		ng/L		108	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.0	26.5		ng/L		106	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.0	28.2		ng/L		113	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.0	25.7		ng/L		103	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.0	25.0		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.0	27.5		ng/L		110	70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	111		70 - 130
13C2 PFHxA	119		70 - 130
13C2 PFDA	118		70 - 130
13C3-GenX	116		70 - 130

QC Sample Results

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MRL 380-203609/20-A
Matrix: Water
Analysis Batch: 203712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203609

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	2.02	J	ng/L		101	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	2.13	J	ng/L		107	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.21	J	ng/L		111	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.01	J	ng/L		101	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.21	J	ng/L		111	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.23	J	ng/L		112	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.27	J	ng/L		114	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.15	J	ng/L		108	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.28	J	ng/L		114	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.19	J	ng/L		110	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.09	J	ng/L		104	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.03	J	ng/L		101	50 - 150
		MRL	MRL				
Surrogate	%Recovery	Qualifier	Limits				
d5-NEtFOSAA	115		70 - 130				
13C2 PFHxA	119		70 - 130				
13C2 PFDA	123		70 - 130				
13C3-GenX	115		70 - 130				

Lab Sample ID: 380-196006-A-1-B MS
Matrix: Water
Analysis Batch: 203712

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 203609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		25.1	26.1		ng/L		104	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.4		ng/L		109	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	28.5		ng/L		114	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.7		ng/L		106	70 - 130

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QC Association Summary

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

Job ID: 380-196023-1
 SDG: PFAS: Ka'amilo Wells P1

LCMS

Prep Batch: 203609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-196023-1	Ka'amilo Wells P1	Total/NA	Water	537.1 DW	
380-196023-2	FB: Ka'amilo Wells P1	Total/NA	Water	537.1 DW	
MBL 380-203609/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-203609/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-203609/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-196006-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-196006-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 203617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-196023-1	Ka'amilo Wells P1	Total/NA	Water	533	
380-196023-2	FB: Ka'amilo Wells P1	Total/NA	Water	533	
MBL 380-203617/20-A	Method Blank	Total/NA	Water	533	
LCS 380-203617/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-203617/21-A	Lab Control Sample	Total/NA	Water	533	
380-196020-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-196020-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 203712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-196023-1	Ka'amilo Wells P1	Total/NA	Water	EPA 537.1 V2	203609
380-196023-2	FB: Ka'amilo Wells P1	Total/NA	Water	EPA 537.1 V2	203609
MBL 380-203609/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	203609
LCS 380-203609/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	203609
MRL 380-203609/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	203609
380-196006-A-1-B MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	203609
380-196006-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	203609

Analysis Batch: 203798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-196023-1	Ka'amilo Wells P1	Total/NA	Water	533	203617
380-196023-2	FB: Ka'amilo Wells P1	Total/NA	Water	533	203617
MBL 380-203617/20-A	Method Blank	Total/NA	Water	533	203617
LCS 380-203617/22-A	Lab Control Sample	Total/NA	Water	533	203617
MRL 380-203617/21-A	Lab Control Sample	Total/NA	Water	533	203617
380-196020-E-1-A MS	Matrix Spike	Total/NA	Water	533	203617
380-196020-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	203617

Lab Chronicle

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-196023-1

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203617	XTD8	EA POM	02/05/26 06:46
Total/NA	Analysis	533		1	203798	SZ9R	EA POM	02/05/26 21:46
Total/NA	Prep	537.1 DW			203609	G9MN	EA POM	02/05/26 01:18
Total/NA	Analysis	EPA 537.1 V2		1	203712	SZ9R	EA POM	02/05/26 16:51

Client Sample ID: FB: Ka'amilo Wells P1

Lab Sample ID: 380-196023-2

Date Collected: 02/02/26 13:21

Matrix: Water

Date Received: 02/04/26 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			203617	XTD8	EA POM	02/05/26 06:46
Total/NA	Analysis	533		1	203798	SZ9R	EA POM	02/05/26 21:55
Total/NA	Prep	537.1 DW			203609	G9MN	EA POM	02/05/26 01:18
Total/NA	Analysis	EPA 537.1 V2		1	203712	SZ9R	EA POM	02/05/26 17:00

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: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Laboratory: Eurofins Pomona

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

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

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

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

Method Summary

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

Job ID: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	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: 380-196023-1
SDG: PFAS: Ka'amilo Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-196023-1	Ka'amilo Wells P1	Water	02/02/26 13:21	02/04/26 09:22	Hawaii
380-196023-2	FB: Ka'amilo Wells P1	Water	02/02/26 13:21	02/04/26 09:22	Hawaii

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

Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



Client Information		Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: kirK Iwamoto		E-Mail: Maria.Lopez@le.leuronisus.com	State of Origin:	Page:
Company: City & County of Honolulu		IPWSID:	Job #:	
Address: 630 South Beretania Street, Chemistry Lab		Analysis Requested		
City: Honolulu		Total Number of containers: <input checked="" type="checkbox"/>		
State, Zip: HI, 96843		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AcNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 808-748-5840 (tel)		Special Instructions/Note:		
Email: kiwamoto@hbws.org		<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> SUBCONTRACT - 625 PAH Physia LL (EAL) + TICs <input checked="" type="checkbox"/> 8015B_GRO_LL - (MOD) GRO <input checked="" type="checkbox"/> 8015B_DRO_LL_CS - HNL Ranges - C10-C24/C24-C38/C8-C18 <input checked="" type="checkbox"/> 626.2_PREC - (MOD) 626plus PLUS TICs <input checked="" type="checkbox"/> 637.1_DW_PREC - 637.1 Full List <input checked="" type="checkbox"/> 633 - All Analytes		
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Site:		Special Instructions/QC Requirements:		
Due Date Requested:		Method of Shipment: <u>8845787588/58741521</u>		
TAT Requested (days): RUSH		Date/Time: <u>2/12/26</u> <u>9:22</u>		
Compliance Project: <input type="checkbox"/> No		Date/Time: _____		
PO #: C20525101 exp 05312023		Date/Time: _____		
WO #:		Date/Time: _____		
Project #: 38001111		Cooler Temperature(s) °C and Other Remarks: <u>6/1/21 2.1</u>		
SSOW#:		Custody Seal No. <u>2.5</u>		
Sample Identification		Received by: <u>[Signature]</u> Company: <u>HBWS</u>		
Ka'amilo Wells P1		Received by: _____ Company: _____		
Sample Date: 2-Feb-2026		Received by: _____ Company: _____		
Sample Time: 1321		Cooler Temperature(s) °C and Other Remarks: <u>6/1/21 2.1</u>		
Sample Type (C=Comp, G=grab): G		Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Matrix (Water, Swab, Slur, Other): Water		Empty Kit Relinquished by: _____		
Sample Date: 2-Feb-2026		Date: _____		
Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
Sample Date: 2-Feb-2026		Date/Time: _____		
Sample Time: 1321		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
Sample Date: 2-Feb-2026		Date/Time: _____		
Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
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Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time: _____		
Sample Date: 2-Feb-2026		Date/Time: _____		
Sample Time: 1321		Date/Time: _____		
Matrix (Water, Swab, Slur, Other): Water		Date/Time		

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-196023-1
SDG Number: PFAS: Ka'amilo Wells P1

Login Number: 196023

List Number: 1

Creator: Ngo, Theodore

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").	True	
ClO4 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	

