

ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/17/2025 9:14:46 PM

JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells Pump 1/Pump 2

JOB NUMBER

380-155072-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

Generated
6/17/2025 9:14:46 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	15
Surrogate Summary	17
Isotope Dilution Summary	18
QC Sample Results	19
QC Association Summary	36
Lab Chronicle	38
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	46



Definitions/Glossary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Qualifiers

LCMS

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

Glossary

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

Case Narrative

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

Job ID: 380-155072-1

Job ID: 380-155072-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-155072-1

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

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

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

Receipt

The samples were received on 6/11/2025 9:30 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 3.3°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: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.8		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.7		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.2		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.4		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.5		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.7		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.7		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		2.0	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.3		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: FB Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

No Detections.

Client Sample ID: FB Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-1

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorobutanesulfonic acid (PFBS)	2.7		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorohexanoic acid (PFHxA)	2.8		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorooctanesulfonic acid (PFOS)	3.7		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoropentanoic acid (PFPeA)	3.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/16/25 14:23	06/17/25 09:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C6 PFDA	98		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C5 PFHxA	101		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C4 PFHpA	101		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C8 PFOA	100		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C9 PFNA	101		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C7 PFUnA	95		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C2 PFDoA	100		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C4 PFBA	102		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C5 PFPeA	107		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C3 PFBS	95		50 - 200	06/16/25 14:23	06/17/25 09:01	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-1

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	99		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C8 PFOS	101		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C2-4:2-FTS	136		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C2-6:2-FTS	148		50 - 200	06/16/25 14:23	06/17/25 09:01	1
13C2-8:2-FTS	116		50 - 200	06/16/25 14:23	06/17/25 09:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorohexanoic acid (PFHxA)	2.9		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorooctanoic acid (PFOA)	3.1		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorobutanesulfonic acid (PFBS)	2.5		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	101		70 - 130	06/13/25 02:08	06/13/25 18:14	1
13C2 PFHxA	100		70 - 130	06/13/25 02:08	06/13/25 18:14	1
13C2 PFDA	106		70 - 130	06/13/25 02:08	06/13/25 18:14	1
13C3-GenX	97		70 - 130	06/13/25 02:08	06/13/25 18:14	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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		06/13/25 16:20	06/14/25 14:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorobutanesulfonic acid (PFBS)	2.2		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorooctanesulfonic acid (PFOS)	3.4		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorooctanoic acid (PFOA)	2.4		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoropentanoic acid (PFPeA)	2.4		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	76		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C6 PFDA	64		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C5 PFHxA	78		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C4 PFHpA	78		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C8 PFOA	75		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C9 PFNA	68		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C7 PFUnA	64		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C2 PFDoA	72		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C4 PFBA	92		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C5 PFPeA	90		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C3 PFBS	103		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C3 PFHxS	106		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C8 PFOS	100		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C2-4:2-FTS	142		50 - 200	06/13/25 16:20	06/14/25 14:18	1
13C2-6:2-FTS	124		50 - 200	06/13/25 16:20	06/14/25 14:18	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2-FTS	119		50 - 200	06/13/25 16:20	06/14/25 14:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorooctanesulfonic acid (PFOS)	3.5		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorohexanoic acid (PFHxA)	2.7		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorooctanoic acid (PFOA)	2.7		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorohexanesulfonic acid (PFHxS)	3.2		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorobutanesulfonic acid (PFBS)	2.3		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			06/13/25 02:08	06/13/25 18:24	1
13C2 PFHxA	98		70 - 130			06/13/25 02:08	06/13/25 18:24	1
13C2 PFDA	103		70 - 130			06/13/25 02:08	06/13/25 18:24	1
13C3-GenX	99		70 - 130			06/13/25 02:08	06/13/25 18:24	1

Client Sample ID: FB Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: FB Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

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		06/13/25 16:20	06/14/25 14:27	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C6 PFDA	88		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C5 PFHxA	91		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C4 PFHpA	91		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C8 PFOA	89		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C9 PFNA	90		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C7 PFUnA	82		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C2 PFDoA	91		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C4 PFBA	96		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C5 PFPeA	100		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C3 PFBS	115		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C3 PFHxS	115		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C8 PFOS	106		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C2-4:2-FTS	154		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C2-6:2-FTS	129		50 - 200	06/13/25 16:20	06/14/25 14:27	1
13C2-8:2-FTS	125		50 - 200	06/13/25 16:20	06/14/25 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: FB Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

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		06/13/25 02:08	06/13/25 18:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	94		70 - 130			06/13/25 02:08	06/13/25 18:35	1
13C2 PFHxA	100		70 - 130			06/13/25 02:08	06/13/25 18:35	1
13C2 PFDA	102		70 - 130			06/13/25 02:08	06/13/25 18:35	1
13C3-GenX	92		70 - 130			06/13/25 02:08	06/13/25 18:35	1

Client Sample ID: FB Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: FB Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/13/25 16:20	06/14/25 14:37	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C6 PFDA	87		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C5 PFHxA	87		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C4 PFHpA	88		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C8 PFOA	90		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C9 PFNA	91		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C7 PFUnA	84		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C2 PFDoA	90		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C4 PFBA	95		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C5 PFPeA	94		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C3 PFBS	109		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C3 PFHxS	108		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C8 PFOS	102		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C2-4:2-FTS	155		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C2-6:2-FTS	128		50 - 200			06/13/25 16:20	06/14/25 14:37	1
13C2-8:2-FTS	122		50 - 200			06/13/25 16:20	06/14/25 14:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: FB Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	93		70 - 130			06/13/25 02:08	06/13/25 18:46	1
13C2 PFHxA	96		70 - 130			06/13/25 02:08	06/13/25 18:46	1
13C2 PFDA	106		70 - 130			06/13/25 02:08	06/13/25 18:46	1
13C3-GenX	95		70 - 130			06/13/25 02:08	06/13/25 18:46	1

Action Limit Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-1

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.7		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	3.2		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)	4.1		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		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: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		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)	3.5		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.7		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		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 Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

Compliance Check

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

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: FB Ka'amilo Wells Pump 1 (Continued)

Lab Sample ID: 380-155072-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
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 Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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)
380-154977-B-1-A MS	Matrix Spike	101	99	105	102
380-154977-C-1-A MSD	Matrix Spike Duplicate	93	104	105	97
380-155072-1	Ka'amilo Wells Pump 1	101	100	106	97
380-155072-2	Ka'amilo Wells Pump 2	102	98	103	99
380-155072-3	FB Ka'amilo Wells Pump 1	94	100	102	92
380-155072-4	FB Ka'amilo Wells Pump 2	93	96	106	95
LCS 380-157752/22-A	Lab Control Sample	89	91	102	89
MBL 380-157752/20-A	Method Blank	95	98	103	95
MRL 380-157752/21-A	Lab Control Sample	98	98	103	99

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: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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)	PFDaA (50-200)
380-154918-L-1-A MS	Matrix Spike	99	100	108	104	103	103	99	96
380-154918-M-1-A MSD	Matrix Spike Duplicate	96	101	102	101	102	101	99	95
380-155006-B-1-A MS	Matrix Spike	95	102	105	105	105	106	103	108
380-155006-C-1-A MSD	Matrix Spike Duplicate	77	89	84	84	86	87	89	96
380-155072-1	Ka'amilo Wells Pump 1	94	98	101	101	100	101	95	100
380-155072-2	Ka'amilo Wells Pump 2	76	64	78	78	75	68	64	72
380-155072-3	FB Ka'amilo Wells Pump 1	83	88	91	91	89	90	82	91
380-155072-4	FB Ka'amilo Wells Pump 2	80	87	87	88	90	91	84	90
LCS 380-157862/22-A	Lab Control Sample	88	100	98	97	99	101	95	101
LCS 380-158150/22-A	Lab Control Sample	100	100	102	99	100	100	98	95
MBL 380-157862/20-A	Method Blank	86	97	96	99	96	97	89	94
MBL 380-158150/20-A	Method Blank	120	129	133	132	131	131	130	125
MRL 380-157862/21-A	Lab Control Sample	92	99	98	98	97	100	94	96
MRL 380-158150/21-A	Lab Control Sample	99	101	107	107	106	104	102	97

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)
380-154918-L-1-A MS	Matrix Spike	108	106	100	99	102	112	109	101
380-154918-M-1-A MSD	Matrix Spike Duplicate	108	102	96	100	101	106	103	103
380-155006-B-1-A MS	Matrix Spike	113	116	107	105	104	140	121	117
380-155006-C-1-A MSD	Matrix Spike Duplicate	94	100	102	103	102	129	112	116
380-155072-1	Ka'amilo Wells Pump 1	102	107	95	99	101	136	148	116
380-155072-2	Ka'amilo Wells Pump 2	92	90	103	106	100	142	124	119
380-155072-3	FB Ka'amilo Wells Pump 1	96	100	115	115	106	154	129	125
380-155072-4	FB Ka'amilo Wells Pump 2	95	94	109	108	102	155	128	122
LCS 380-157862/22-A	Lab Control Sample	108	106	103	101	100	143	119	117
LCS 380-158150/22-A	Lab Control Sample	102	97	95	96	101	110	105	100
MBL 380-157862/20-A	Method Blank	98	99	105	105	102	138	117	115
MBL 380-158150/20-A	Method Blank	132	129	115	120	129	156	140	133
MRL 380-157862/21-A	Lab Control Sample	104	108	103	106	103	142	118	118
MRL 380-158150/21-A	Lab Control Sample	101	94	99	101	104	120	107	106

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MBL 380-157862/20-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157862

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		06/13/25 16:20	06/14/25 10:57	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		06/13/25 16:20	06/14/25 10:57	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	86		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C6 PFDA	97		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C5 PFHxA	96		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C4 PFHpA	99		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C8 PFOA	96		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C9 PFNA	97		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C7 PFUnA	89		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C2 PFDoA	94		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C4 PFBA	98		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C5 PFPeA	99		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C3 PFBS	105		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C3 PFHxS	105		50 - 200	06/13/25 16:20	06/14/25 10:57	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MBL 380-157862/20-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157862

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C2-4:2-FTS	138		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C2-6:2-FTS	117		50 - 200	06/13/25 16:20	06/14/25 10:57	1
13C2-8:2-FTS	115		50 - 200	06/13/25 16:20	06/14/25 10:57	1

Lab Sample ID: LCS 380-157862/22-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	61.1		ng/L		101	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	60.2	61.5		ng/L		102	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	59.3		ng/L		98	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	58.4		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	62.9		ng/L		104	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	62.5		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	60.9		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	62.3		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	63.4		ng/L		105	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	61.4		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	60.2	57.8		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	61.7		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	58.9		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	61.7		ng/L		102	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	60.1		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	61.5		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	61.9		ng/L		103	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	61.3		ng/L		102	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	57.7		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	60.2	61.8		ng/L		103	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	58.4		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	58.0		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	59.1		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	64.4		ng/L		107	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-157862/22-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	63.1		ng/L		105	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	88		50 - 200				
13C6 PFDA	100		50 - 200				
13C5 PFHxA	98		50 - 200				
13C4 PFHpA	97		50 - 200				
13C8 PFOA	99		50 - 200				
13C9 PFNA	101		50 - 200				
13C7 PFUnA	95		50 - 200				
13C2 PFDoA	101		50 - 200				
13C4 PFBA	108		50 - 200				
13C5 PFPeA	106		50 - 200				
13C3 PFBS	103		50 - 200				
13C3 PFHxS	101		50 - 200				
13C8 PFOS	100		50 - 200				
13C2-4:2-FTS	143		50 - 200				
13C2-6:2-FTS	119		50 - 200				
13C2-8:2-FTS	117		50 - 200				

Lab Sample ID: MRL 380-157862/21-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.26	J	ng/L		113	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	2.09	J	ng/L		104	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.90	J	ng/L		95	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.76	J	ng/L		88	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.34	J	ng/L		117	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.45	J	ng/L		122	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-157862/21-A

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.20	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.13	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.12	J	ng/L		106	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.87	J	ng/L		94	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.91	J	ng/L		95	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.01	J	ng/L		100	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	92		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	98		50 - 200
13C4 PFHpA	98		50 - 200
13C8 PFOA	97		50 - 200
13C9 PFNA	100		50 - 200
13C7 PFUnA	94		50 - 200
13C2 PFDoA	96		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	103		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	142		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	118		50 - 200

Lab Sample ID: 380-155006-B-1-A MS

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.1	60.1		ng/L		100	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	62.4		ng/L		104	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	59.2		ng/L		98	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-155006-B-1-A MS

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.1	61.5		ng/L		102	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	62.5		ng/L		104	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.1	61.6		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	59.6		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	60.0		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	62.6		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.1	58.3		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.1	57.9		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.3		60.1	63.3		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.1	57.4		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	59.1		ng/L		98	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.1	60.1		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	61.2		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	59.0		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	57.3		ng/L		95	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		60.1	53.2		ng/L		88	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	61.3		ng/L		102	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	60.5		ng/L		101	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	59.0		ng/L		98	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.1	57.7		ng/L		96	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	63.8		ng/L		106	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	62.9		ng/L		105	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	95		50 - 200
13C6 PFDA	102		50 - 200
13C5 PFHxA	105		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	105		50 - 200
13C9 PFNA	106		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	108		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	116		50 - 200
13C3 PFBS	107		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	104		50 - 200

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-155006-B-1-A MS

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 157862

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	140		50 - 200
13C2-6:2-FTS	121		50 - 200
13C2-8:2-FTS	117		50 - 200

Lab Sample ID: 380-155006-C-1-A MSD

Matrix: Water

Analysis Batch: 157953

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 157862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		60.1	62.1		ng/L		103	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<2.0		60.1	60.8		ng/L		101	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	56.3		ng/L		94	70 - 130	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.1	58.8		ng/L		98	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	63.6		ng/L		106	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		60.1	60.7		ng/L		101	70 - 130	2	30
Perfluorododecanoic acid (PFDaA)	<2.0		60.1	61.8		ng/L		103	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	61.9		ng/L		103	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	63.5		ng/L		104	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.1	59.9		ng/L		100	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		60.1	60.9		ng/L		101	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	2.3		60.1	62.9		ng/L		101	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.1	58.9		ng/L		97	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	60.8		ng/L		101	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	<2.0		60.1	62.2		ng/L		104	70 - 130	4	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	63.1		ng/L		105	70 - 130	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	64.6		ng/L		107	70 - 130	9	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	61.8		ng/L		103	70 - 130	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.1	53.7		ng/L		89	70 - 130	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.1	63.6		ng/L		106	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	60.4		ng/L		100	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	51.5		ng/L		86	70 - 130	14	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.1	55.1		ng/L		92	70 - 130	5	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	62.3		ng/L		104	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	62.8		ng/L		105	70 - 130	0	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	77		50 - 200
13C6 PFDA	89		50 - 200
13C5 PFHxA	84		50 - 200
13C4 PFHpA	84		50 - 200
13C8 PFOA	86		50 - 200
13C9 PFNA	87		50 - 200
13C7 PFUnA	89		50 - 200
13C2 PFDoA	96		50 - 200
13C4 PFBA	94		50 - 200
13C5 PFPeA	100		50 - 200
13C3 PFBS	102		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	102		50 - 200
13C2-4:2-FTS	129		50 - 200
13C2-6:2-FTS	112		50 - 200
13C2-8:2-FTS	116		50 - 200

Lab Sample ID: MBL 380-158150/20-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158150

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		06/16/25 14:23	06/17/25 05:30	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MBL 380-158150/20-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 158150

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		06/16/25 14:23	06/17/25 05:30	1
Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	120		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C6 PFDA	129		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C5 PFHxA	133		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C4 PFHpA	132		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C8 PFOA	131		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C9 PFNA	131		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C7 PFUnA	130		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C2 PFDoA	125		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C4 PFBA	132		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C5 PFPeA	129		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C3 PFBS	115		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C3 PFHxS	120		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C8 PFOS	129		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C2-4:2-FTS	156		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C2-6:2-FTS	140		50 - 200			06/16/25 14:23	06/17/25 05:30	1
13C2-8:2-FTS	133		50 - 200			06/16/25 14:23	06/17/25 05:30	1

Lab Sample ID: LCS 380-158150/22-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	123		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	126		ng/L		105	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	131		ng/L		109	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	130		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	131		ng/L		109	70 - 130
Perfluorodecanoic acid (PFDA)	120	124		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	120	126		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	125		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	132		ng/L		109	70 - 130
Perfluorohexanoic acid (PFHxA)	120	130		ng/L		108	70 - 130
Perfluorononanoic acid (PFNA)	120	129		ng/L		107	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	126		ng/L		105	70 - 130
Perfluorooctanoic acid (PFOA)	120	127		ng/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-158150/22-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	120	129		ng/L		107	70 - 130
Perfluorobutanoic acid (PFBA)	120	120		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	125		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	125		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	129		ng/L		107	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	129		ng/L		107	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	138		ng/L		115	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	123		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	131		ng/L		109	70 - 130
Perfluoropentanoic acid (PFPeA)	120	129		ng/L		107	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	121		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	120	128		ng/L		106	70 - 130

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	100		50 - 200
13C6 PFDA	100		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	100		50 - 200
13C9 PFNA	100		50 - 200
13C7 PFUnA	98		50 - 200
13C2 PFDoA	95		50 - 200
13C4 PFBA	102		50 - 200
13C5 PFPeA	97		50 - 200
13C3 PFBS	95		50 - 200
13C3 PFHxS	96		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	110		50 - 200
13C2-6:2-FTS	105		50 - 200
13C2-8:2-FTS	100		50 - 200

Lab Sample ID: MRL 380-158150/21-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.00	J	ng/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	1.88	J	ng/L		94	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-158150/21-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.04	J	ng/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.91	J	ng/L		95	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.23	J	ng/L		111	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.01	J	ng/L		100	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.04	J	ng/L		102	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.19	J	ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.23	J	ng/L		111	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	1.83	J	ng/L		91	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	1.84	J	ng/L		92	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.29	J	ng/L		114	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.89	J	ng/L		94	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	1.98	J	ng/L		99	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	99		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	107		50 - 200
13C8 PFOA	106		50 - 200
13C9 PFNA	104		50 - 200
13C7 PFUnA	102		50 - 200
13C2 PFDoA	97		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	94		50 - 200
13C3 PFBS	99		50 - 200
13C3 PFHxS	101		50 - 200

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-158150/21-A

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 158150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C8 PFOS	104		50 - 200
13C2-4:2-FTS	120		50 - 200
13C2-6:2-FTS	107		50 - 200
13C2-8:2-FTS	106		50 - 200

Lab Sample ID: 380-154918-L-1-A MS

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158150

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	61.4		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.2	60.3		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	62.9		ng/L		104	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	66.3		ng/L		110	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	65.0		ng/L		108	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	63.5		ng/L		105	70 - 130
Perfluorododecanoic acid (PFDaA)	<2.0		60.2	64.2		ng/L		107	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	63.4		ng/L		105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	64.5		ng/L		107	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	61.8		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	64.2		ng/L		107	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	62.9		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.2	63.9		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	63.9		ng/L		106	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.2	62.8		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	65.3		ng/L		108	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	64.9		ng/L		108	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	64.7		ng/L		107	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	66.4		ng/L		110	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.2	64.4		ng/L		107	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	61.5		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	62.0		ng/L		103	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	65.7		ng/L		109	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	62.7		ng/L		104	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-154918-L-1-A MS

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	65.2		ng/L		108	70 - 130
<i>Isotope Dilution</i>	<i>MS %Recovery</i>	<i>MS Qualifier</i>	<i>Limits</i>						
13C3 HFPO-DA	99		50 - 200						
13C6 PFDA	100		50 - 200						
13C5 PFHxA	108		50 - 200						
13C4 PFHpA	104		50 - 200						
13C8 PFOA	103		50 - 200						
13C9 PFNA	103		50 - 200						
13C7 PFUnA	99		50 - 200						
13C2 PFDoA	96		50 - 200						
13C4 PFBA	108		50 - 200						
13C5 PFPeA	106		50 - 200						
13C3 PFBS	100		50 - 200						
13C3 PFHxS	99		50 - 200						
13C8 PFOS	102		50 - 200						
13C2-4:2-FTS	112		50 - 200						
13C2-6:2-FTS	109		50 - 200						
13C2-8:2-FTS	101		50 - 200						

Lab Sample ID: 380-154918-M-1-A MSD

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158150

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		60.4	62.0		ng/L		103	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.4	60.1		ng/L		100	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	65.1		ng/L		108	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	64.1		ng/L		106	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	68.2		ng/L		113	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	63.5		ng/L		105	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	65.3		ng/L		108	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	64.0		ng/L		106	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	64.2		ng/L		106	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	66.3		ng/L		110	70 - 130	7	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	65.0		ng/L		108	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	63.4		ng/L		105	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	63.5		ng/L		105	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	64.5		ng/L		107	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	63.2		ng/L		105	70 - 130	1	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-154918-M-1-A MSD

Matrix: Water

Analysis Batch: 158306

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 158150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	62.1		ng/L		103	70 - 130	5	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	66.3		ng/L		110	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	65.6		ng/L		109	70 - 130	1	30
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		60.4	62.9		ng/L		104	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFESA)	<2.0		60.4	65.7		ng/L		109	70 - 130	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	61.3		ng/L		102	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	64.4		ng/L		107	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	65.0		ng/L		108	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	64.9		ng/L		107	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	64.4		ng/L		107	70 - 130	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	96		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	101		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	101		50 - 200
13C7 PFUnA	99		50 - 200
13C2 PFDoA	95		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	102		50 - 200
13C3 PFBS	96		50 - 200
13C3 PFHxS	100		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	106		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	103		50 - 200

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

Lab Sample ID: MBL 380-157752/20-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157752

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MBL 380-157752/20-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157752

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorotridecanoic acid (PFTDA)	<0.36		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUS)	<0.30		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130	06/13/25 02:08	06/13/25 14:39	1
13C2 PFHxA	98		70 - 130	06/13/25 02:08	06/13/25 14:39	1
13C2 PFDA	103		70 - 130	06/13/25 02:08	06/13/25 14:39	1
13C3-GenX	95		70 - 130	06/13/25 02:08	06/13/25 14:39	1

Lab Sample ID: LCS 380-157752/22-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.1	42.9		ng/L		86	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.1	51.4		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.1	51.2		ng/L		102	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.1	46.6		ng/L		93	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.1	47.1		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	50.1	44.2		ng/L		88	70 - 130
Perfluorododecanoic acid (PFDoA)	50.1	49.4		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	50.1	47.9		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	50.1	51.4		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.1	52.6		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.1	49.4		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.1	45.9		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	50.1	51.5		ng/L		103	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: LCS 380-157752/22-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTA)	50.1	45.1		ng/L		90	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.1	48.4		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	50.1	52.7		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.1	49.9		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.1	43.9		ng/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	89		70 - 130
13C2 PFHxA	91		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	89		70 - 130

Lab Sample ID: MRL 380-157752/21-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.28	J	ng/L		114	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.11	J	ng/L		105	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.02	J	ng/L		101	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.09	J	ng/L		105	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.19	J	ng/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.11	J	ng/L		106	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.63	J	ng/L		82	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.01	J	ng/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.10	J	ng/L		105	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: MRL 380-157752/21-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.06	J	ng/L		103	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.98	J	ng/L		99	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	98		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	103		70 - 130
13C3-GenX	99		70 - 130

Lab Sample ID: 380-154977-B-1-A MS

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	46.8		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	51.9		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	49.4		ng/L		98	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	50.6		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	48.8		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	46.4		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDaA)	<2.0		50.2	47.1		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.2	48.2		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.2	51.1		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	51.9		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	50.0		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.0		50.2	48.5		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.2	51.3		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	36.9		ng/L		73	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	48.9		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	52.1		ng/L		104	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	49.4		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	46.0		ng/L		92	70 - 130

QC Sample Results

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Lab Sample ID: 380-154977-B-1-A MS

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 157752

Surrogate	MS %Recovery	MS Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	99		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: 380-154977-C-1-A MSD

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide	<2.0		50.2	49.0		ng/L		98	70 - 130	5	30
Dimer Acid (HFPO-DA/GenX)											
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	53.6		ng/L		107	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	51.1		ng/L		102	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	48.9		ng/L		97	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	49.3		ng/L		98	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	50.6		ng/L		101	70 - 130	9	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	50.3		ng/L		100	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	50.4		ng/L		100	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	53.8		ng/L		107	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	54.4		ng/L		108	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	52.5		ng/L		105	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	50.6		ng/L		101	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		50.2	52.7		ng/L		105	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	39.0		ng/L		78	70 - 130	6	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	51.2		ng/L		102	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	53.6		ng/L		107	70 - 130	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	50.4		ng/L		100	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	48.2		ng/L		96	70 - 130	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	93		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	97		70 - 130

QC Association Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

LCMS

Prep Batch: 157752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-1	Ka'amilo Wells Pump 1	Total/NA	Water	537.1 DW	
380-155072-2	Ka'amilo Wells Pump 2	Total/NA	Water	537.1 DW	
380-155072-3	FB Ka'amilo Wells Pump 1	Total/NA	Water	537.1 DW	
380-155072-4	FB Ka'amilo Wells Pump 2	Total/NA	Water	537.1 DW	
MBL 380-157752/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-157752/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-157752/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-154977-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-154977-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 157857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-1	Ka'amilo Wells Pump 1	Total/NA	Water	537.1	157752
380-155072-2	Ka'amilo Wells Pump 2	Total/NA	Water	537.1	157752
380-155072-3	FB Ka'amilo Wells Pump 1	Total/NA	Water	537.1	157752
380-155072-4	FB Ka'amilo Wells Pump 2	Total/NA	Water	537.1	157752
MBL 380-157752/20-A	Method Blank	Total/NA	Water	537.1	157752
LCS 380-157752/22-A	Lab Control Sample	Total/NA	Water	537.1	157752
MRL 380-157752/21-A	Lab Control Sample	Total/NA	Water	537.1	157752
380-154977-B-1-A MS	Matrix Spike	Total/NA	Water	537.1	157752
380-154977-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	157752

Prep Batch: 157862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-2	Ka'amilo Wells Pump 2	Total/NA	Water	533	
380-155072-3	FB Ka'amilo Wells Pump 1	Total/NA	Water	533	
380-155072-4	FB Ka'amilo Wells Pump 2	Total/NA	Water	533	
MBL 380-157862/20-A	Method Blank	Total/NA	Water	533	
LCS 380-157862/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-157862/21-A	Lab Control Sample	Total/NA	Water	533	
380-155006-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-155006-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 157953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-2	Ka'amilo Wells Pump 2	Total/NA	Water	533	157862
380-155072-3	FB Ka'amilo Wells Pump 1	Total/NA	Water	533	157862
380-155072-4	FB Ka'amilo Wells Pump 2	Total/NA	Water	533	157862
MBL 380-157862/20-A	Method Blank	Total/NA	Water	533	157862
LCS 380-157862/22-A	Lab Control Sample	Total/NA	Water	533	157862
MRL 380-157862/21-A	Lab Control Sample	Total/NA	Water	533	157862
380-155006-B-1-A MS	Matrix Spike	Total/NA	Water	533	157862
380-155006-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	157862

Prep Batch: 158150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-1	Ka'amilo Wells Pump 1	Total/NA	Water	533	
MBL 380-158150/20-A	Method Blank	Total/NA	Water	533	
LCS 380-158150/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-158150/21-A	Lab Control Sample	Total/NA	Water	533	
380-154918-L-1-A MS	Matrix Spike	Total/NA	Water	533	

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

LCMS (Continued)

Prep Batch: 158150 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154918-M-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 158306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-155072-1	Ka'amilo Wells Pump 1	Total/NA	Water	533	158150
MBL 380-158150/20-A	Method Blank	Total/NA	Water	533	158150
LCS 380-158150/22-A	Lab Control Sample	Total/NA	Water	533	158150
MRL 380-158150/21-A	Lab Control Sample	Total/NA	Water	533	158150
380-154918-L-1-A MS	Matrix Spike	Total/NA	Water	533	158150
380-154918-M-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	158150

Lab Chronicle

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-1

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			158150	N8NE	EA POM	06/16/25 14:23
Total/NA	Analysis	533		1	158306	SZ9R	EA POM	06/17/25 09:01
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 18:14

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-2

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157862	E2HD	EA POM	06/13/25 16:20
Total/NA	Analysis	533		1	157953	Y5FM	EA POM	06/14/25 14:18
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 18:24

Client Sample ID: FB Ka'amilo Wells Pump 1

Lab Sample ID: 380-155072-3

Date Collected: 06/09/25 11:35

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157862	E2HD	EA POM	06/13/25 16:20
Total/NA	Analysis	533		1	157953	Y5FM	EA POM	06/14/25 14:27
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 18:35

Client Sample ID: FB Ka'amilo Wells Pump 2

Lab Sample ID: 380-155072-4

Date Collected: 06/09/25 11:05

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157862	E2HD	EA POM	06/13/25 16:20
Total/NA	Analysis	533		1	157953	Y5FM	EA POM	06/14/25 14:37
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 18:46

Laboratory References:

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

Method Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

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

Job ID: 380-155072-1
SDG: PFAS: Ka'amilo Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-155072-1	Ka'amilo Wells Pump 1	Water	06/09/25 11:35	06/11/25 09:30
380-155072-2	Ka'amilo Wells Pump 2	Water	06/09/25 11:05	06/11/25 09:30
380-155072-3	FB Ka'amilo Wells Pump 1	Water	06/09/25 11:35	06/11/25 09:30
380-155072-4	FB Ka'amilo Wells Pump 2	Water	06/09/25 11:05	06/11/25 09:30

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler: <i>Olaf Happe</i>		Lab PM: Arada, Rachele		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachele.Arada@et.eurofinsus.com		State of Origin		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:		Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
City: Honolulu		TAT Requested (days)		625.1, 625.1, SIM		8015B_GRO_LL - (MOD) GRO		8015B_DRO_LL_CS - HNL Ranges, C10-C24/C24-C39/C39-C48	
State Zip: HI, 96843		Compliance Project. ☐ Yes ☐ No		525.2, PREC - (MOD) 525plus Plus TICs		537.1_DW_PREC - 537.1 Full List		533 - All Analytes	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		WO #:		Project #:		SSOW#:	
Email: kiwamoto@hbws.org		Project Name: RED-HILL/HBWS Sites Event Desc. RUSH Weekly Red Hill		Project #:		38001111		SSOW#:	
Site: Hawaii		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	
Ka'amilo Wells Pump 1		9-Jun-2025		1135		C		Water	
Ka'amilo Wells Pump 2		9-Jun-2025		1105		C		Water	
FB Ka'amilo Wells Pump 1		9-Jun-2025		1135				Water	
FB Ka'amilo Wells Pump 2		9-Jun-2025		1105				Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For Months	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment			
Relinquished by		Date/Time: 6-10-27 1000		Company		Received by		Date/Time: 6/11/25 9:30	
Relinquished by		Date/Time:		Company		Received by		Date/Time:	
Relinquished by		Date/Time:		Company		Received by		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 6182/3.3=3.3 GR					

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

SHIP DATE 10JUN25
ACTWGT: 62.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF.

INV.

PO.

DEPT.



FedEx
Express



4 of 7

WED - 11 JUN 10:30A

MPS#

0263

8819 2465 3968

PRIORITY OVERNIGHT

Mstr# 8819 2465 3935

0201

91768

WM ONTA

CA-US ONT



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

69.75%



380-155072 COC

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

SHIP DATE 10JUN25
ACTWGT: 62.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF.

INV.

PO.

DEPT.



FedEx
Express



4 of 7

WED - 11 JUN 10:30A

MPS#

0263

8819 2465 3968

PRIORITY OVERNIGHT

Mstr# 8819 2465 3935

0201

91768

WM ONTA

CA-US ONT



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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-155072-1

SDG Number: PFAS: Ka'amilo Wells Pump 1/Pump 2

Login Number: 155072

List Number: 1

Creator: Sanchez Velasquez, Gustavo

List Source: Eurofins Eaton Analytical Pomona

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