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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Ka'amilo Wells P2

JOB NUMBER

380-210084-1

Eurofins Pomona

Job Notes

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Qualifiers

LCMS

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

Glossary

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

Case Narrative

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

Job ID: 380-210084-1

Job ID: 380-210084-1

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Job Narrative 380-210084-1

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

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

Receipt

The samples were received on 4/23/2026 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

PFAS

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

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Detection Summary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
PWSID Number: HI0000331

Lab Sample ID: 380-210084-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)
PWSID Number: HI0000331

Lab Sample ID: 380-210084-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-1

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorohexanoic acid (PFHxA)	3.9		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorooctanesulfonic acid (PFOS)	4.8		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorooctanoic acid (PFOA)	4.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoropentanoic acid (PFPeA)	4.5		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:13	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C6 PFDA	95		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C5 PFHxA	100		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C4 PFHpA	101		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C8 PFOA	96		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C9 PFNA	98		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C7 PFUnA	94		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C2 PFDoA	100		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C4 PFBA	103		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C5 PFPeA	105		50 - 200			04/24/26 07:54	04/25/26 00:13	1
13C3 PFBS	113		50 - 200			04/24/26 07:54	04/25/26 00:13	1

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Client Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-1

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	113		50 - 200	04/24/26 07:54	04/25/26 00:13	1
13C8 PFOS	110		50 - 200	04/24/26 07:54	04/25/26 00:13	1
13C2-4:2-FTS	118		50 - 200	04/24/26 07:54	04/25/26 00:13	1
13C2-6:2-FTS	113		50 - 200	04/24/26 07:54	04/25/26 00:13	1
13C2-8:2-FTS	103		50 - 200	04/24/26 07:54	04/25/26 00:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorooctanesulfonic acid (PFOS)	5.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorooctanoic acid (PFOA)	4.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130	04/24/26 07:48	04/24/26 19:19	1
13C2 PFHxA	117		70 - 130	04/24/26 07:48	04/24/26 19:19	1
13C2 PFDA	110		70 - 130	04/24/26 07:48	04/24/26 19:19	1
13C3-GenX	110		70 - 130	04/24/26 07:48	04/24/26 19:19	1

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-2

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1

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Client Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-2

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/24/26 07:54	04/25/26 00:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	110		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C6 PFDA	104		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C5 PFHxA	118		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C4 PFHpA	109		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C8 PFOA	109		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C9 PFNA	104		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C7 PFUnA	97		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C2 PFDoA	101		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C4 PFBA	110		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C5 PFPeA	113		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C3 PFBS	110		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C3 PFHxS	111		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C8 PFOS	109		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C2-4:2-FTS	117		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C2-6:2-FTS	110		50 - 200	04/24/26 07:54	04/25/26 00:23	1
13C2-8:2-FTS	102		50 - 200	04/24/26 07:54	04/25/26 00:23	1

Client Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-2

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/24/26 07:48	04/24/26 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130	04/24/26 07:48	04/24/26 19:39	1
13C2 PFHxA	106		70 - 130	04/24/26 07:48	04/24/26 19:39	1
13C2 PFDA	94		70 - 130	04/24/26 07:48	04/24/26 19:39	1
13C3-GenX	92		70 - 130	04/24/26 07:48	04/24/26 19:39	1

Action Limit Summary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-1

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-2

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Surrogate Summary

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

Job ID: 380-210084-1
 SDG: Ka'amilo Wells P2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-209861-E-1-A MS	Matrix Spike	111	120	107	112
380-209861-F-1-A MSD	Matrix Spike Duplicate	109	112	110	111
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	111	117	110	110
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	103	106	94	92
LCS 380-222666/21-A	Lab Control Sample	106	106	109	105
MBL 380-222666/19-A	Method Blank	121	122	112	117
MRL 380-222666/20-A	Lab Control Sample	111	113	107	113

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: 380-210084-1
SDG: Ka'amilo Wells P2

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	94	95	100	101	96	98	94	100
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	110	104	118	109	109	104	97	101
380-210118-B-1-A MS	Matrix Spike	113	105	115	114	107	112	112	110
380-210118-C-1-A MSD	Matrix Spike Duplicate	110	104	112	111	109	111	109	112
LCS 380-222662/22-A	Lab Control Sample	113	109	115	116	111	111	110	112
MBL 380-222662/20-A	Method Blank	106	109	108	113	112	112	103	111
MRL 380-222662/21-A	Lab Control Sample	104	110	109	111	109	107	107	108

		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)
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	103	105	113	113	110	118	113	103
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	110	113	110	111	109	117	110	102
380-210118-B-1-A MS	Matrix Spike	114	128	111	110	112	111	107	102
380-210118-C-1-A MSD	Matrix Spike Duplicate	111	120	115	112	112	118	108	108
LCS 380-222662/22-A	Lab Control Sample	111	112	112	111	111	112	108	108
MBL 380-222662/20-A	Method Blank	108	117	119	121	121	125	123	121
MRL 380-222662/21-A	Lab Control Sample	89	109	112	116	114	120	113	114

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-222662/20-A
Matrix: Water
Analysis Batch: 222877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222662

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		04/24/26 07:54	04/24/26 20:46	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C6 PFDA	109		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C5 PFHxA	108		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C4 PFHpA	113		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C8 PFOA	112		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C9 PFNA	112		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C7 PFUnA	103		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C2 PFDoA	111		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C4 PFBA	108		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C5 PFPeA	117		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C3 PFBS	119		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C3 PFHxS	121		50 - 200	04/24/26 07:54	04/24/26 20:46	1

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QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-222662/20-A
Matrix: Water
Analysis Batch: 222877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222662

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	121		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C2-4:2-FTS	125		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C2-6:2-FTS	123		50 - 200	04/24/26 07:54	04/24/26 20:46	1
13C2-8:2-FTS	121		50 - 200	04/24/26 07:54	04/24/26 20:46	1

Lab Sample ID: LCS 380-222662/22-A
Matrix: Water
Analysis Batch: 222877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 222662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.1	60.4		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.1	60.2		ng/L		100	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.1	63.5		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.1	61.5		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	60.1	62.8		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	60.1	61.1		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.1	62.5		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.1	60.3		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	60.1	62.2		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	60.1	65.3		ng/L		109	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.1	62.9		ng/L		105	70 - 130
Perfluorooctanoic acid (PFOA)	60.1	61.7		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.1	62.1		ng/L		103	70 - 130
Perfluorobutanoic acid (PFBA)	60.1	60.9		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.1	63.3		ng/L		105	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.1	66.7		ng/L		111	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.1	63.6		ng/L		106	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.1	58.3		ng/L		97	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.1	61.6		ng/L		103	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.1	61.5		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.1	63.6		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	60.1	61.8		ng/L		103	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.1	63.6		ng/L		106	70 - 130

QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-222662/22-A

Matrix: Water

Analysis Batch: 222877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.1	62.6		ng/L		104	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	113		50 - 200				
13C6 PFDA	109		50 - 200				
13C5 PFHxA	115		50 - 200				
13C4 PFHpA	116		50 - 200				
13C8 PFOA	111		50 - 200				
13C9 PFNA	111		50 - 200				
13C7 PFUnA	110		50 - 200				
13C2 PFDoA	112		50 - 200				
13C4 PFBA	111		50 - 200				
13C5 PFPeA	112		50 - 200				
13C3 PFBS	112		50 - 200				
13C3 PFHxS	111		50 - 200				
13C8 PFOS	111		50 - 200				
13C2-4:2-FTS	112		50 - 200				
13C2-6:2-FTS	108		50 - 200				
13C2-8:2-FTS	108		50 - 200				

Lab Sample ID: MRL 380-222662/21-A

Matrix: Water

Analysis Batch: 222877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222662

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.22	J	ng/L		111	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.13	J	ng/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.22	J	ng/L		111	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.38	J	ng/L		119	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.39	J	ng/L		119	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.40	J	ng/L		120	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.29	J	ng/L		114	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.26	J	ng/L		113	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.38	J	ng/L		119	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.24	J	ng/L		112	50 - 150

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QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-222662/21-A

Matrix: Water

Analysis Batch: 222877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222662

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.22	J	ng/L		111	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.35	J	ng/L		117	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.42	J	ng/L		121	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.67	J	ng/L		133	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.32	J	ng/L		116	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.29	J	ng/L		114	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.16	J	ng/L		108	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	110		50 - 200
13C5 PFHxA	109		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	107		50 - 200
13C7 PFUnA	107		50 - 200
13C2 PFDoA	108		50 - 200
13C4 PFBA	89		50 - 200
13C5 PFPeA	109		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	120		50 - 200
13C2-6:2-FTS	113		50 - 200
13C2-8:2-FTS	114		50 - 200

Lab Sample ID: 380-210118-B-1-A MS

Matrix: Water

Analysis Batch: 222877

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 222662

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	57.0		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	58.8		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	60.5		ng/L		100	70 - 130

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QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: 380-210118-B-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 222877

Prep Batch: 222662

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		60.2	63.2		ng/L		105	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	63.4		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	60.8		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	61.9		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.0		60.2	63.3		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	61.7		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	3.2		60.2	64.1		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	62.0		ng/L		103	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.4		60.2	62.6		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	3.5		60.2	67.1		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	60.6		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	5.7		60.2	66.7		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	61.7		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	63.6		ng/L		106	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	62.5		ng/L		104	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	65.3		ng/L		108	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	61.0		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	65.6		ng/L		109	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	62.2		ng/L		103	70 - 130
Perfluoropentanoic acid (PFPeA)	3.2		60.2	67.3		ng/L		106	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	59.9		ng/L		100	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	61.1		ng/L		101	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	113		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	115		50 - 200
13C4 PFHpA	114		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	110		50 - 200
13C4 PFBA	114		50 - 200
13C5 PFPeA	128		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	112		50 - 200

QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: 380-210118-B-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 222877

Prep Batch: 222662

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2-4:2-FTS	111		50 - 200
13C2-6:2-FTS	107		50 - 200
13C2-8:2-FTS	102		50 - 200

Lab Sample ID: 380-210118-C-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 222877

Prep Batch: 222662

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	58.9		ng/L		98	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	59.8		ng/L		99	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	60.5		ng/L		100	70 - 130	0	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	62.8		ng/L		104	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	61.4		ng/L		99	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		60.2	62.9		ng/L		104	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	60.7		ng/L		101	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	2.0		60.2	64.5		ng/L		104	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	63.3		ng/L		103	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	3.2		60.2	62.4		ng/L		98	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		60.2	61.7		ng/L		102	70 - 130	0	30
Perfluorooctanesulfonic acid (PFOS)	2.4		60.2	64.1		ng/L		102	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	3.5		60.2	64.5		ng/L		101	70 - 130	4	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	62.0		ng/L		103	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	5.7		60.2	65.3		ng/L		99	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	59.7		ng/L		99	70 - 130	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	61.9		ng/L		103	70 - 130	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	60.7		ng/L		101	70 - 130	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	59.9		ng/L		99	70 - 130	9	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	60.4		ng/L		100	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	63.8		ng/L		106	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	62.7		ng/L		104	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	3.2		60.2	67.1		ng/L		106	70 - 130	0	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	60.6		ng/L		101	70 - 130	1	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	60.0		ng/L		100	70 - 130	2	30

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QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	110		50 - 200
13C6 PFDA	104		50 - 200
13C5 PFHxA	112		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	111		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	111		50 - 200
13C5 PFPeA	120		50 - 200
13C3 PFBS	115		50 - 200
13C3 PFHxS	112		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	118		50 - 200
13C2-6:2-FTS	108		50 - 200
13C2-8:2-FTS	108		50 - 200

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

Lab Sample ID: MBL 380-222666/19-A
Matrix: Water
Analysis Batch: 222835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222666

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/24/26 07:48	04/24/26 17:06	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	121		70 - 130			04/24/26 07:48	04/24/26 17:06	1
13C2 PFHxA	122		70 - 130			04/24/26 07:48	04/24/26 17:06	1
13C2 PFDA	112		70 - 130			04/24/26 07:48	04/24/26 17:06	1

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QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-222666/19-A
Matrix: Water
Analysis Batch: 222835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222666

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3-GenX	117		70 - 130	04/24/26 07:48	04/24/26 17:06	1

Lab Sample ID: LCS 380-222666/21-A
Matrix: Water
Analysis Batch: 222835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 222666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	24.7		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	24.3		ng/L		97	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.9		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	23.8		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	23.4		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	24.7		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	24.2		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	23.6		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	25.6		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	25.5		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.1		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	25.1	23.4		ng/L		94	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	22.9		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	25.9		ng/L		103	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	24.3		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.8		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	23.2		ng/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	106		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	109		70 - 130
13C3-GenX	105		70 - 130

QC Sample Results

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-222666/20-A
Matrix: Water
Analysis Batch: 222835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 222666

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.91	J	ng/L		95	50 - 150	
Perfluorooctanesulfonic acid (PFOS)	2.00	1.93	J	ng/L		96	50 - 150	
Perfluoroundecanoic acid (PFUnA)	2.00	1.92	J	ng/L		96	50 - 150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.03	J	ng/L		101	50 - 150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.05	J	ng/L		103	50 - 150	
Perfluorohexanoic acid (PFHxA)	2.00	2.04	J	ng/L		102	50 - 150	
Perfluorododecanoic acid (PFDoA)	2.00	1.90	J	ng/L		95	50 - 150	
Perfluorooctanoic acid (PFOA)	2.00	2.15	J	ng/L		107	50 - 150	
Perfluorodecanoic acid (PFDA)	2.00	1.93	J	ng/L		96	50 - 150	
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.10	J	ng/L		105	50 - 150	
Perfluorobutanesulfonic acid (PFBS)	2.00	2.12	J	ng/L		106	50 - 150	
Perfluoroheptanoic acid (PFHpA)	2.00	2.04	J	ng/L		102	50 - 150	
Perfluorononanoic acid (PFNA)	2.00	2.01	J	ng/L		100	50 - 150	
Perfluorotetradecanoic acid (PFTA)	2.00	1.78	J	ng/L		89	50 - 150	
Perfluorotridecanoic acid (PFTrDA)	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	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.87	J	ng/L		94	50 - 150	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.01	J	ng/L		100	50 - 150	
		MRL	MRL					
Surrogate	%Recovery	Qualifier	Limits					
d5-NEtFOSAA	111		70 - 130					
13C2 PFHxA	113		70 - 130					
13C2 PFDA	107		70 - 130					
13C3-GenX	113		70 - 130					

Lab Sample ID: 380-209861-E-1-A MS
Matrix: Water
Analysis Batch: 222835

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 222666

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	23.9		ng/L		95	70 - 130	
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	25.4		ng/L		101	70 - 130	
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	23.1		ng/L		92	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	25.6		ng/L		102	70 - 130	

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QC Association Summary

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

Job ID: 380-210084-1
 SDG: Ka'amilo Wells P2

LCMS

Prep Batch: 222662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
MBL 380-222662/20-A	Method Blank	Total/NA	Water	533	
LCS 380-222662/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-222662/21-A	Lab Control Sample	Total/NA	Water	533	
380-210118-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-210118-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 222666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
MBL 380-222666/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-222666/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-222666/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-209861-E-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-209861-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 222835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	222666
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	222666
MBL 380-222666/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	222666
LCS 380-222666/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	222666
MRL 380-222666/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	222666
380-209861-E-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	222666
380-209861-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	222666

Analysis Batch: 222877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	222662
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	222662
MBL 380-222662/20-A	Method Blank	Total/NA	Water	533	222662
LCS 380-222662/22-A	Lab Control Sample	Total/NA	Water	533	222662
MRL 380-222662/21-A	Lab Control Sample	Total/NA	Water	533	222662
380-210118-B-1-A MS	Matrix Spike	Total/NA	Water	533	222662
380-210118-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	222662

Lab Chronicle

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-1

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			222662	XTD8	EA POM	04/24/26 07:54
Total/NA	Analysis	533		1	222877	Y5FM	EA POM	04/25/26 00:13
Total/NA	Prep	537.1 DW			222666	E9PK	EA POM	04/24/26 07:48
Total/NA	Analysis	EPA 537.1 V2		1	222835	Y5FM	EA POM	04/24/26 19:19

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-210084-2

Date Collected: 04/21/26 10:58

Matrix: Water

Date Received: 04/23/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			222662	XTD8	EA POM	04/24/26 07:54
Total/NA	Analysis	533		1	222877	Y5FM	EA POM	04/25/26 00:23
Total/NA	Prep	537.1 DW			222666	E9PK	EA POM	04/24/26 07:48
Total/NA	Analysis	EPA 537.1 V2		1	222835	Y5FM	EA POM	04/24/26 19:39

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Laboratory: Eurofins Pomona

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

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

- 1
- 2
- 3
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- 13
- 14
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- 16
- 17

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

Method Summary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

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

Job ID: 380-210084-1
SDG: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-210084-1	Ka'amilo Wells P2 (331-600-WL085)	Water	04/21/26 10:58	04/23/26 09:40	HI0000331
380-210084-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Water	04/21/26 10:58	04/23/26 09:40	HI0000331

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-210084-1
SDG Number: Ka'amilo Wells P2

Login Number: 210084

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

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

