

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
RUSH Weekly Red Hill

JOB NUMBER

380-61372-1

Eurofins Eaton Analytical 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 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



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Definitions/Glossary

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

Job ID: 380-61372-1

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.
α	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/Site: RED-HILL

Job ID: 380-61372-1

Job ID: 380-61372-1

Laboratory: Eurofins Eaton Analytical Pomona

Narrative

Job Narrative 380-61372-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 9/1/2023 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 2.9°C

PFAS

Method 533: Analyte Perfluorobutanoic acid (PFBA), detected greater than MRL in the Method blank in analytical batch 380-55909. This has also caused the MRL check failed biased high. Perfluorobutanoic acid (PFBA) detected in samples MOANALUA WELLS (380-61372-1) and HALAWA WELLS UNITS 1&2 (380-61372-2). 533 Data excluded due to this QC failure, 537.1 data was reported as there were no noted QC issues.

Method 533: Analyte Perfluorobutanoic acid (PFBA), detected greater than MRL in the Method blank in analytical batch 380-55909. This has also caused the MRL check failed biased high. Perfluorobutanoic acid (PFBA) was detected greater than MRL in field reagent blank FB MOANALUA WELLS (380-61372-3) and FB HALAWA WELLS UNITS 1&2 (380-61372-4) possibly due to lab contamination. 533 Data excluded due to this QC failure, 537.1 data was reported as there were no noted QC issues.

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: 380-61372-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-61372-1

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	2.2		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-61372-3

No Detections.

Client Sample ID: FB HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-4

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: 380-61372-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-61372-1

Date Collected: 08/30/23 11:30

Matrix: Drinking Water

Date Received: 09/01/23 09:40

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		09/11/23 04:54	09/12/23 04:18	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	94		70 - 130			09/11/23 04:54	09/12/23 04:18	1
13C2 PFHxA	115		70 - 130			09/11/23 04:54	09/12/23 04:18	1
13C2 PFDA	99		70 - 130			09/11/23 04:54	09/12/23 04:18	1
13C3-GenX	129		70 - 130			09/11/23 04:54	09/12/23 04:18	1

Client Sample ID: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-2

Date Collected: 08/30/23 10:00

Matrix: Drinking Water

Date Received: 09/01/23 09:40

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		09/11/23 04:54	09/12/23 04:28	1
Perfluorooctanesulfonic acid (PFOS)	2.2		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorooctanoic acid (PFOA)	2.1		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1

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Client Sample Results

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

Job ID: 380-61372-1

Client Sample ID: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-2

Date Collected: 08/30/23 10:00

Matrix: Drinking Water

Date Received: 09/01/23 09:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130	09/11/23 04:54	09/12/23 04:28	1
13C2 PFHxA	112		70 - 130	09/11/23 04:54	09/12/23 04:28	1
13C2 PFDA	103		70 - 130	09/11/23 04:54	09/12/23 04:28	1
13C3-GenX	122		70 - 130	09/11/23 04:54	09/12/23 04:28	1

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-61372-3

Date Collected: 08/30/23 11:30

Matrix: Water

Date Received: 09/01/23 09:40

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		09/11/23 04:54	09/12/23 04:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	96		70 - 130	09/11/23 04:54	09/12/23 04:37	1
13C2 PFHxA	114		70 - 130	09/11/23 04:54	09/12/23 04:37	1
13C2 PFDA	108		70 - 130	09/11/23 04:54	09/12/23 04:37	1
13C3-GenX	113		70 - 130	09/11/23 04:54	09/12/23 04:37	1

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Client Sample Results

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

Job ID: 380-61372-1

Client Sample ID: FB HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-4

Date Collected: 08/30/23 10:00

Matrix: Drinking Water

Date Received: 09/01/23 09:40

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		09/11/23 04:54	09/12/23 04:47	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130			09/11/23 04:54	09/12/23 04:47	1
13C2 PFHxA	115		70 - 130			09/11/23 04:54	09/12/23 04:47	1
13C2 PFDA	109		70 - 130			09/11/23 04:54	09/12/23 04:47	1
13C3-GenX	113		70 - 130			09/11/23 04:54	09/12/23 04:47	1

Surrogate Summary

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

Job ID: 380-61372-1

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	GenX
		(70-130)	(70-130)	(70-130)	(70-130)
380-61372-1	MOANALUA WELLS	94	115	99	129
380-61372-2	HALAWA WELLS UNITS 1&2	97	112	103	122
380-61372-4	FB HALAWA WELLS UNITS 1&2	98	115	109	113

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
 PFHxA = 13C2 PFHxA
 PFDA = 13C2 PFDA
 GenX = 13C3-GenX

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	GenX
		(70-130)	(70-130)	(70-130)	(70-130)
380-61372-3	FB MOANALUA WELLS	96	114	108	113
LCS 380-55165/21-A	Lab Control Sample	87	114	108	113
LCSD 380-55165/22-A	Lab Control Sample Dup	89	116	103	109
MB 380-55165/19-A	Method Blank	99	118	108	122
MRL 380-55165/20-A	Lab Control Sample	96	114	107	111

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: 380-61372-1

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-61372-1	MOANALUA WELLS	70	92	85	90	89	89	86	90
380-61372-2	HALAWA WELLS UNITS 1&2	69	93	85	90	92	89	88	89
380-61372-4	FB HALAWA WELLS UNITS 1&2	69	99	87	88	90	91	91	92

		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)
380-61372-1	MOANALUA WELLS	89	95	86	88	89	99	92	87
380-61372-2	HALAWA WELLS UNITS 1&2	91	97	88	90	91	95	94	87
380-61372-4	FB HALAWA WELLS UNITS 1&2	89	101	84	88	90	97	96	93

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-61372-3	FB MOANALUA WELLS	68	97	85	89	89	92	86	87
380-62014-B-1-A MS	Matrix Spike	62	94	83	90	87	87	88	88
380-62014-C-1-A MSD	Matrix Spike Duplicate	77	97	88	96	93	92	92	95
LCS 380-55282/21-A	Lab Control Sample	79	97	88	93	88	92	91	90
LCSD 380-55282/22-A	Lab Control Sample Dup	76	95	87	95	91	92	89	88
MBL 380-55282/19-A	Method Blank	70	93	84	88	85	88	85	86
MRL 380-55282/20-A	Lab Control Sample	71	92	86	87	88	89	73	86

		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)
380-61372-3	FB MOANALUA WELLS	90	95	88	86	90	99	93	87
380-62014-B-1-A MS	Matrix Spike	84	96	88	91	89	92	89	86
380-62014-C-1-A MSD	Matrix Spike Duplicate	91	103	84	89	89	88	88	86
LCS 380-55282/21-A	Lab Control Sample	90	93	89	92	92	90	87	83

Eurofins Eaton Analytical Pomona

Isotope Dilution Summary

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

Job ID: 380-61372-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
LCSD 380-55282/22-A	Lab Control Sample Dup	90	94	87	88	89	91	90	87
MBL 380-55282/19-A	Method Blank	87	88	82	83	87	90	83	85
MRL 380-55282/20-A	Lab Control Sample	87	87	85	87	86	89	85	82

Surrogate Legend

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



QC Sample Results

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

Job ID: 380-61372-1

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

Lab Sample ID: MB 380-55165/19-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55165

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/11/23 04:54	09/12/23 02:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130	09/11/23 04:54	09/12/23 02:23	1
13C2 PFHxA	118		70 - 130	09/11/23 04:54	09/12/23 02:23	1
13C2 PFDA	108		70 - 130	09/11/23 04:54	09/12/23 02:23	1
13C3-GenX	122		70 - 130	09/11/23 04:54	09/12/23 02:23	1

Lab Sample ID: LCS 380-55165/21-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.1	57.6		ng/L		115	70 - 130
Perfluorooctanesulfonic acid (PFOS)	46.4	52.9		ng/L		114	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.1	52.8		ng/L		105	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.1	52.7		ng/L		105	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.1	49.8		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	50.1	57.0		ng/L		114	70 - 130
Perfluorododecanoic acid (PFDoA)	50.1	53.3		ng/L		106	70 - 130
Perfluorooctanoic acid (PFOA)	50.1	56.9		ng/L		114	70 - 130
Perfluorodecanoic acid (PFDA)	50.1	56.4		ng/L		113	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-61372-1

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

Lab Sample ID: LCS 380-55165/21-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluorohexanesulfonic acid (PFHxS)	45.7	52.3		ng/L		114	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	44.3	50.9		ng/L		115	70 - 130	
Perfluoroheptanoic acid (PFHpA)	50.1	53.4		ng/L		107	70 - 130	
Perfluorononanoic acid (PFNA)	50.1	60.2		ng/L		120	70 - 130	
Perfluorotetradecanoic acid (PFTA)	50.1	52.8		ng/L		105	70 - 130	
Perfluorotridecanoic acid (PFTTrDA)	50.1	54.8		ng/L		109	70 - 130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	46.8	51.9		ng/L		111	70 - 130	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47.3	49.5		ng/L		104	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47.3	50.7		ng/L		107	70 - 130	
LCS LCS								
Surrogate	%Recovery	Qualifier						Limits
d5-NEtFOSAA	87							70 - 130
13C2 PFHxA	114							70 - 130
13C2 PFDA	108							70 - 130
13C3-GenX	113							70 - 130

Lab Sample ID: LCSD 380-55165/22-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.1	56.2		ng/L		112	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	46.4	51.8		ng/L		112	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	50.1	56.5		ng/L		113	70 - 130	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.1	55.2		ng/L		110	70 - 130	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.1	51.5		ng/L		103	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	50.1	58.4		ng/L		117	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	50.1	56.7		ng/L		113	70 - 130	6	30
Perfluorooctanoic acid (PFOA)	50.1	58.7		ng/L		117	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	50.1	55.6		ng/L		111	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	45.7	50.9		ng/L		111	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	44.3	46.1		ng/L		104	70 - 130	10	30
Perfluoroheptanoic acid (PFHpA)	50.1	55.7		ng/L		111	70 - 130	4	30
Perfluorononanoic acid (PFNA)	50.1	62.0		ng/L		124	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	50.1	54.3		ng/L		108	70 - 130	3	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-61372-1

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

Lab Sample ID: LCSD 380-55165/22-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorotridecanoic acid (PFTTrDA)	50.1	56.6		ng/L		113	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	46.8	48.9		ng/L		104	70 - 130	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	47.3	48.1		ng/L		102	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	47.3	53.3		ng/L		112	70 - 130	5	30
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
d5-NEtFOSAA	89		70 - 130						
13C2 PFHxA	116		70 - 130						
13C2 PFDA	103		70 - 130						
13C3-GenX	109		70 - 130						

Lab Sample ID: MRL 380-55165/20-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.13	J	ng/L		106	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.98	J	ng/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.07	J	ng/L		103	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.08	J	ng/L		104	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.42	J	ng/L		121	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.97	J	ng/L		108	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.77	1.87	J	ng/L		105	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.39	J	ng/L		119	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.44	J	ng/L		122	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.00	2.20	J	ng/L		110	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.87	1.99	J	ng/L		106	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.89	1.78	J	ng/L		94	50 - 150

QC Sample Results

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

Job ID: 380-61372-1

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

Lab Sample ID: MRL 380-55165/20-A
Matrix: Water
Analysis Batch: 55245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	2.29	J	ng/L		121	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
d5-NEtFOSAA	96		70 - 130
13C2 PFHxA	114		70 - 130
13C2 PFDA	107		70 - 130
13C3-GenX	111		70 - 130

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QC Association Summary

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

Job ID: 380-61372-1

LCMS

Prep Batch: 55165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-61372-1	MOANALUA WELLS	Total/NA	Drinking Water	537.1 DW	
380-61372-2	HALAWA WELLS UNITS 1&2	Total/NA	Drinking Water	537.1 DW	
380-61372-3	FB MOANALUA WELLS	Total/NA	Water	537.1 DW	
380-61372-4	FB HALAWA WELLS UNITS 1&2	Total/NA	Drinking Water	537.1 DW	
MB 380-55165/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-55165/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
LCSD 380-55165/22-A	Lab Control Sample Dup	Total/NA	Water	537.1 DW	
MRL 380-55165/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	

Analysis Batch: 55245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-61372-1	MOANALUA WELLS	Total/NA	Drinking Water	537.1	55165
380-61372-2	HALAWA WELLS UNITS 1&2	Total/NA	Drinking Water	537.1	55165
380-61372-3	FB MOANALUA WELLS	Total/NA	Water	537.1	55165
380-61372-4	FB HALAWA WELLS UNITS 1&2	Total/NA	Drinking Water	537.1	55165
MB 380-55165/19-A	Method Blank	Total/NA	Water	537.1	55165
LCS 380-55165/21-A	Lab Control Sample	Total/NA	Water	537.1	55165
LCSD 380-55165/22-A	Lab Control Sample Dup	Total/NA	Water	537.1	55165
MRL 380-55165/20-A	Lab Control Sample	Total/NA	Water	537.1	55165



Lab Chronicle

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

Job ID: 380-61372-1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-61372-1

Date Collected: 08/30/23 11:30

Matrix: Drinking Water

Date Received: 09/01/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			55165	U7RS	EA POM	09/11/23 04:54
Total/NA	Analysis	537.1		1	55245	SZ9R	EA POM	09/12/23 04:18

Client Sample ID: HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-2

Date Collected: 08/30/23 10:00

Matrix: Drinking Water

Date Received: 09/01/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			55165	U7RS	EA POM	09/11/23 04:54
Total/NA	Analysis	537.1		1	55245	SZ9R	EA POM	09/12/23 04:28

Client Sample ID: FB MOANALUA WELLS

Lab Sample ID: 380-61372-3

Date Collected: 08/30/23 11:30

Matrix: Water

Date Received: 09/01/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			55165	U7RS	EA POM	09/11/23 04:54
Total/NA	Analysis	537.1		1	55245	SZ9R	EA POM	09/12/23 04:37

Client Sample ID: FB HALAWA WELLS UNITS 1&2

Lab Sample ID: 380-61372-4

Date Collected: 08/30/23 10:00

Matrix: Drinking Water

Date Received: 09/01/23 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			55165	U7RS	EA POM	09/11/23 04:54
Total/NA	Analysis	537.1		1	55245	SZ9R	EA POM	09/12/23 04:47

Laboratory References:

EA POM = Eurofins Eaton Analytical 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: 380-61372-1

Laboratory: Eurofins Eaton Analytical Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537.1	537.1 DW	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537.1	537.1 DW	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)
537.1	537.1 DW	Drinking Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)
537.1	537.1 DW	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537.1	537.1 DW	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537.1	537.1 DW	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)
537.1	537.1 DW	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)



Method Summary

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

Job ID: 380-61372-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	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: 380-61372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-61372-1	MOANALUA WELLS	Drinking Water	08/30/23 11:30	09/01/23 09:40
380-61372-2	HALAWA WELLS UNITS 1&2	Drinking Water	08/30/23 10:00	09/01/23 09:40
380-61372-3	FB MOANALUA WELLS	Water	08/30/23 11:30	09/01/23 09:40
380-61372-4	FB HALAWA WELLS UNITS 1&2	Drinking Water	08/30/23 10:00	09/01/23 09:40

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-61372-1

Login Number: 61372

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Orozco, Jocelyn

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and 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	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	