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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
PFAS: Halawa Shaft Viewing Pool
RUSH Weekly Red Hill

JOB NUMBER

380-177653-1

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: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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: 380-177653-1

Job ID: 380-177653-1

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Job Narrative 380-177653-1

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 10/16/2025 10:29 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 3.0°C and 3.1°C.

PFAS

Method 533: The following QC issues in preparation batch 380-180706 and analytical batch 380-180894 were observed: 13C3 HFPO-DA failed biased low in MRL check. Another MRL check was extracted on the same day (Prep Batch: 180705, Analytical Batch 180834) using the same lot of reagents and consumables. Only one MRL check is required on each day. MBLK and LCS passed all QC requirements for affected samples HALAWA SHAFT VIEWING POOL (380-177653-1) and HALAWA SHAFT VIEWING POOL BLANK (380-177653-2).

Method 533: The following QC issues in preparation batch 380-180706 and analytical batch 380-180894 were observed: Analyte Perfluorooctanesulfonic acid (PFOS) detected greater than 1/3 MRL in blank HALAWA SHAFT VIEWING POOL BLANK (380-177653-2). Any detection in the associated native sample is not acceptable per method. Extracts were re-analyzed for confirmation. PFAS results by 533 for HALAWA SHAFT VIEWING POOL (380-177653-1) and HALAWA SHAFT VIEWING POOL BLANK (380-177653-2) collected on 10/14/25 are not acceptable for compliance due to MRL QC failures not meeting the method limits. The sample is collected weekly thus follow up sample was collected on 10/21/25 under job # 380-178865. Analysis by EPA 533 is currently in progress. (XWB4)

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: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
PWSID Number: HI0000331

Lab Sample ID: 380-177653-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	3.4		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: HALAWA SHAFT VIEWING POOL BLANK

Lab Sample ID: 380-177653-2

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: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-177653-1

Date Collected: 10/14/25 09:42

Matrix: Drinking Water

Date Received: 10/16/25 10:29

PWSID Number: HI0000331

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		10/21/25 14:56	10/22/25 16:41	1
Perfluorooctanesulfonic acid (PFOS)	3.4		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130	10/21/25 14:56	10/22/25 16:41	1
13C2 PFHxA	107		70 - 130	10/21/25 14:56	10/22/25 16:41	1
13C2 PFDA	110		70 - 130	10/21/25 14:56	10/22/25 16:41	1
13C3-GenX	103		70 - 130	10/21/25 14:56	10/22/25 16:41	1

Client Sample ID: HALAWA SHAFT VIEWING POOL BLANK

Lab Sample ID: 380-177653-2

Date Collected: 10/14/25 09:42

Matrix: Water

Date Received: 10/16/25 10:29

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		10/21/25 14:56	10/22/25 16:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1

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Client Sample Results

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

Job ID: 380-177653-1
 SDG: PFAS: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL BLANK

Lab Sample ID: 380-177653-2

Date Collected: 10/14/25 09:42

Matrix: Water

Date Received: 10/16/25 10:29

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/21/25 14:56	10/22/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130	10/21/25 14:56	10/22/25 16:50	1
13C2 PFHxA	98		70 - 130	10/21/25 14:56	10/22/25 16:50	1
13C2 PFDA	99		70 - 130	10/21/25 14:56	10/22/25 16:50	1
13C3-GenX	91		70 - 130	10/21/25 14:56	10/22/25 16:50	1

Action Limit Summary

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL
PWSID Number: HI0000331

Lab Sample ID: 380-177653-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		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)	3.6		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: HALAWA SHAFT VIEWING POOL BLANK

Lab Sample ID: 380-177653-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	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: 380-177653-1
 SDG: PFAS: Halawa Shaft Viewing Pool

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

Matrix: Drinking 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)
380-177653-1	HALAWA SHAFT VIEWING POC	100	107	110	103

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-177648-A-1-B MS	Matrix Spike	93	95	100	92
380-177648-A-1-C MSD	Matrix Spike Duplicate	94	96	95	90
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	99	98	99	91
LCS 380-181174/22-A	Lab Control Sample	94	98	97	88
MBL 380-181174/20-A	Method Blank	95	105	103	93
MRL 380-181174/21-A	Lab Control Sample	86	98	98	88

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: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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)	PFDaA (50-200)
380-177653-1	HALAWA SHAFT VIEWING POC	68	54	70	66	61	58	56	64

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)
380-177653-1	HALAWA SHAFT VIEWING POC	82	78	109	107	108	122	120	123

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

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)
380-177648-B-1-A MS	Matrix Spike	50	29 *5-	53	49 *5-	45 *5-	38 *5-	29 *5-	38 *5-
380-177648-B-1-B MSD	Matrix Spike Duplicate	49 *5-	34 *5-	51	49 *5-	43 *5-	36 *5-	38 *5-	50
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	82	91	89	90	89	92	95	97
LCS 380-180706/22-A	Lab Control Sample	88	102	95	97	93	100	101	105
MBL 380-180706/20-A	Method Blank	66	84	77	76	76	79	83	83
MRL 380-180705/21-A	Lab Control Sample	80	104	91	96	97	102	103	106

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)
380-177648-B-1-A MS	Matrix Spike	57	56	105	102	105	113	119	119
380-177648-B-1-B MSD	Matrix Spike Duplicate	54	51	103	106	107	115	116	125
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	95	94	106	109	107	115	121	115
LCS 380-180706/22-A	Lab Control Sample	98	96	103	107	106	119	114	117
MBL 380-180706/20-A	Method Blank	80	77	108	111	106	114	118	115
MRL 380-180705/21-A	Lab Control Sample	102	93	104	111	110	105	100	101

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA

Isotope Dilution Summary

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

- 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

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QC Sample Results

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

Lab Sample ID: MBL 380-181174/20-A
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181174

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		10/21/25 14:56	10/22/25 13:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<0.58		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<0.42		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		10/21/25 14:56	10/22/25 13:58	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130	10/21/25 14:56	10/22/25 13:58	1
13C2 PFHxA	105		70 - 130	10/21/25 14:56	10/22/25 13:58	1
13C2 PFDA	103		70 - 130	10/21/25 14:56	10/22/25 13:58	1
13C3-GenX	93		70 - 130	10/21/25 14:56	10/22/25 13:58	1

Lab Sample ID: LCS 380-181174/22-A
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	25.2	22.9		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.2	27.0		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.2	26.0		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	25.2	24.4		ng/L		97	70 - 130
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	25.2	25.6		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	25.2	24.6		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	25.2	25.3		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	25.2	25.1		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	25.2	26.6		ng/L		106	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.2	25.2		ng/L		100	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

Lab Sample ID: LCS 380-181174/22-A
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanesulfonic acid (PFBS)	25.2	27.6		ng/L		110	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.2	25.4		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	25.2	25.3		ng/L		101	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.2	19.4		ng/L		77	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	25.2	28.2		ng/L		112	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.2	26.4		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxadecane-1-sulfonic acid (11Cl-PF3OUdS)	25.2	26.3		ng/L		104	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.2	24.5		ng/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	97		70 - 130
13C3-GenX	88		70 - 130

Lab Sample ID: MRL 380-181174/21-A
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181174

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.81	J	ng/L		90	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.29	J	ng/L		114	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.12	J	ng/L		106	50 - 150
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	2.01	2.00	J	ng/L		99	50 - 150
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	2.01	1.87	J	ng/L		93	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.20	J	ng/L		109	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.23	J	ng/L		111	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.28	J	ng/L		113	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.14	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.32	J	ng/L		115	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.01	2.38	J	ng/L		118	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.14	J	ng/L		106	50 - 150

QC Sample Results

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

Lab Sample ID: MRL 380-181174/21-A
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181174

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.15	J	ng/L		107	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.93	J	ng/L		96	50 - 150
Surrogate							
	MRL %Recovery	MRL Qualifier	Limits				
d5-NEtFOSAA	86		70 - 130				
13C2 PFHxA	98		70 - 130				
13C2 PFDA	98		70 - 130				
13C3-GenX	88		70 - 130				

Lab Sample ID: 380-177648-A-1-B MS
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181174

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	24.0		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.7		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	27.2		ng/L		109	70 - 130
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		25.1	26.2		ng/L		104	70 - 130
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		25.1	24.7		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	25.2		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	27.6		ng/L		110	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	25.2		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	26.8		ng/L		107	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	25.5		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	27.3		ng/L		109	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	26.9		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	27.2		ng/L		108	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	22.2		ng/L		88	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	28.3		ng/L		113	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	24.7		ng/L		99	70 - 130
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	25.1		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	26.2		ng/L		105	70 - 130
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
d5-NEtFOSAA	93		70 - 130						
13C2 PFHxA	95		70 - 130						
13C2 PFDA	100		70 - 130						

QC Sample Results

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

Lab Sample ID: 380-177648-A-1-B MS
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 181174

<i>Surrogate</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
	%Recovery	Qualifier	
13C3-GenX	92		70 - 130

Lab Sample ID: 380-177648-A-1-C MSD
Matrix: Water
Analysis Batch: 181419

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 181174

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>RPD</i>
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	22.7		ng/L		91	70 - 130	6	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.2		ng/L		108	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	25.2		ng/L		101	70 - 130	8	30
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		25.1	25.0		ng/L		100	70 - 130	4	30
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		25.1	24.9		ng/L		99	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	24.5		ng/L		98	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	26.3		ng/L		105	70 - 130	5	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	25.5		ng/L		102	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	25.2		ng/L		101	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	25.4		ng/L		102	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	23.6		ng/L		94	70 - 130	15	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	26.2		ng/L		105	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	27.1		ng/L		108	70 - 130	0	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	21.9		ng/L		87	70 - 130	1	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		25.1	28.2		ng/L		112	70 - 130	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	26.1		ng/L		104	70 - 130	5	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	25.5		ng/L		102	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	24.1		ng/L		96	70 - 130	8	30

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	%Recovery	Qualifier	
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	95		70 - 130
13C3-GenX	90		70 - 130

QC Association Summary

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

Job ID: 380-177653-1
 SDG: PFAS: Halawa Shaft Viewing Pool

LCMS

Prep Batch: 181174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177653-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	537.1 DW	
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	Total/NA	Water	537.1 DW	
MBL 380-181174/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-181174/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-181174/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-177648-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-177648-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 181419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177653-1	HALAWA SHAFT VIEWING POOL	Total/NA	Drinking Water	537.1	181174
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	Total/NA	Water	537.1	181174
MBL 380-181174/20-A	Method Blank	Total/NA	Water	537.1	181174
LCS 380-181174/22-A	Lab Control Sample	Total/NA	Water	537.1	181174
MRL 380-181174/21-A	Lab Control Sample	Total/NA	Water	537.1	181174
380-177648-A-1-B MS	Matrix Spike	Total/NA	Water	537.1	181174
380-177648-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	181174



Lab Chronicle

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

Client Sample ID: HALAWA SHAFT VIEWING POOL

Lab Sample ID: 380-177653-1

Date Collected: 10/14/25 09:42

Matrix: Drinking Water

Date Received: 10/16/25 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			181174	X5FS	EA POM	10/21/25 14:56
Total/NA	Analysis	537.1		1	181419	Y5FM	EA POM	10/22/25 16:41

Client Sample ID: HALAWA SHAFT VIEWING POOL BLANK

Lab Sample ID: 380-177653-2

Date Collected: 10/14/25 09:42

Matrix: Water

Date Received: 10/16/25 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			181174	X5FS	EA POM	10/21/25 14:56
Total/NA	Analysis	537.1		1	181419	Y5FM	EA POM	10/22/25 16:50

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: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

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Method Summary

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

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

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Sample Summary

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

Job ID: 380-177653-1
SDG: PFAS: Halawa Shaft Viewing Pool

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-177653-1	HALAWA SHAFT VIEWING POOL	Drinking Water	10/14/25 09:42	10/16/25 10:29	HI0000331
380-177653-2	HALAWA SHAFT VIEWING POOL BLANK	Water	10/14/25 09:42	10/16/25 10:29	

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ORIGIN ID HIK
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HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST.
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 15OCT25
ACTWGT 57.00 LB
CAD 258050552JINET4535

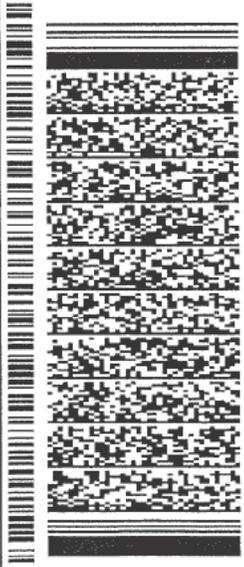
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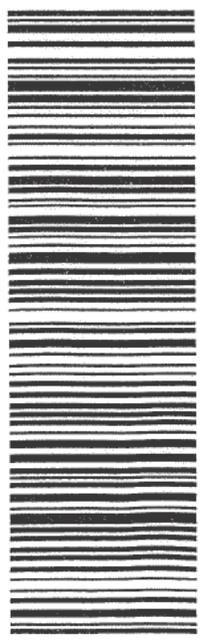
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CAD 258005052/INET4535
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MPS# 8852 1361 1114

0263

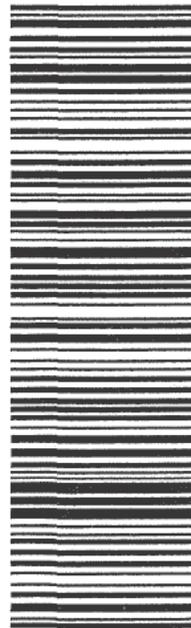
Mstr# 8852 1361 1099

WM ONTA

0201

91768

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

3-1

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-177653-1

SDG Number: PFAS: Halawa Shaft Viewing Pool

Login Number: 177653

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical 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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	